

## Server Components Supporting Application Delivery &amp; Execution License

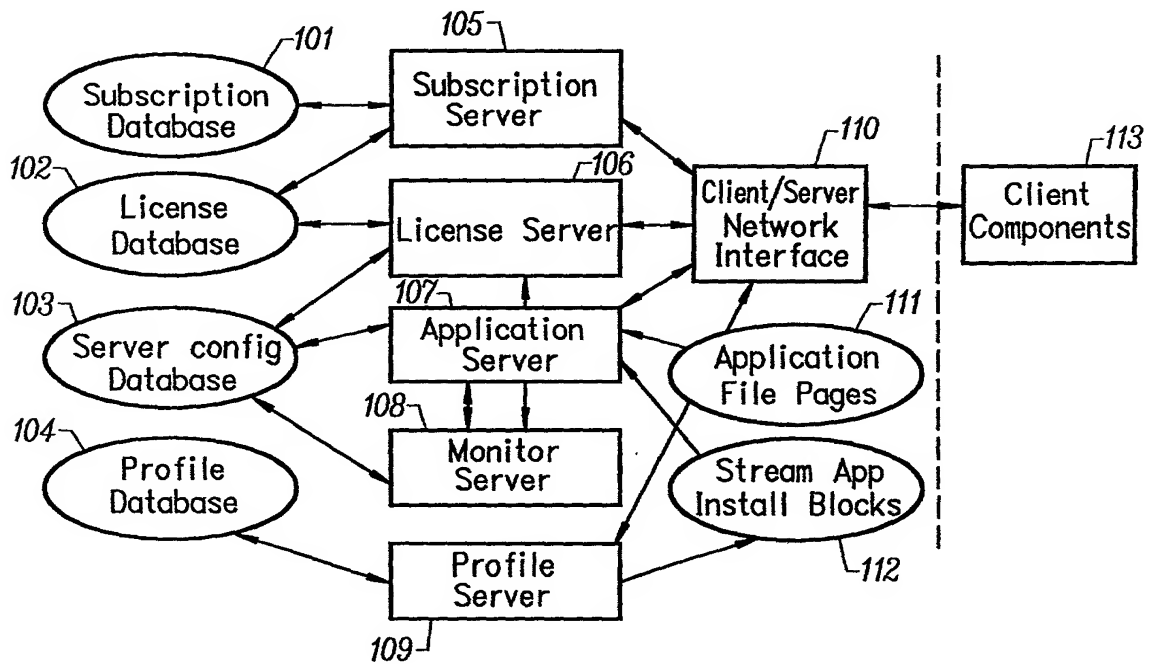


FIG. 1

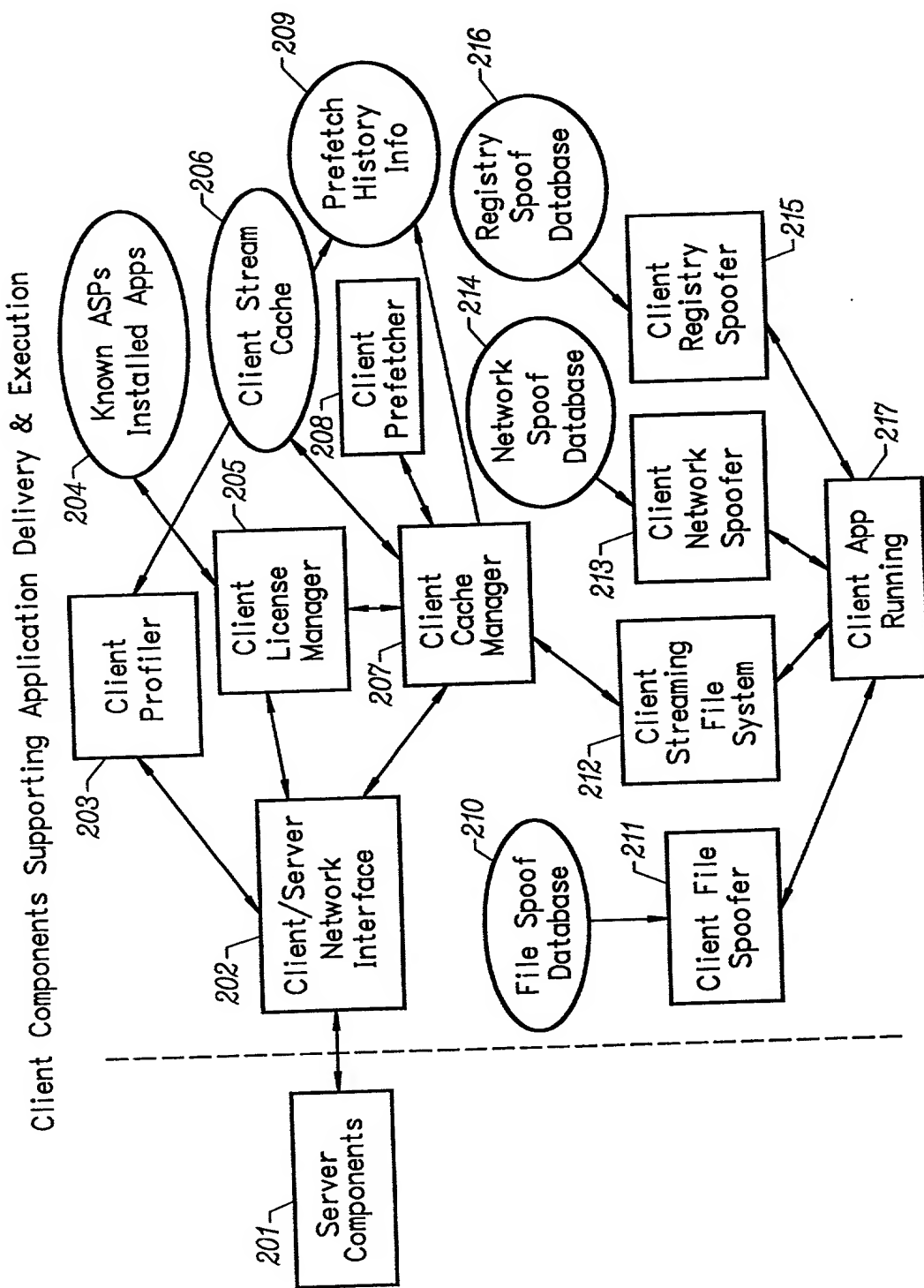


FIG. 2

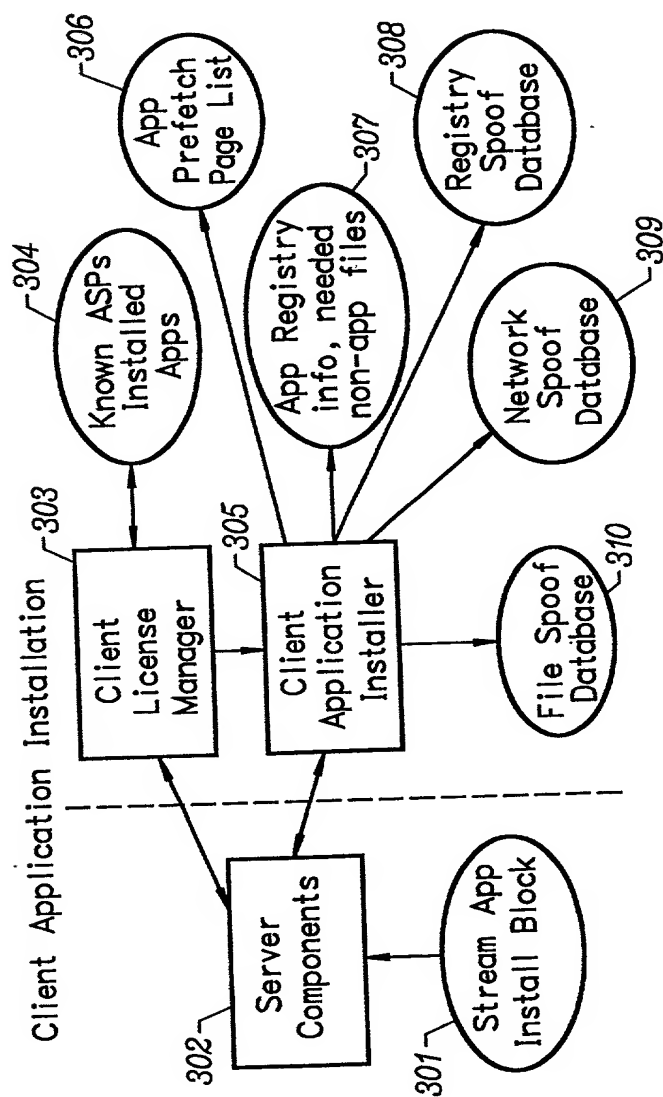


FIG. 3

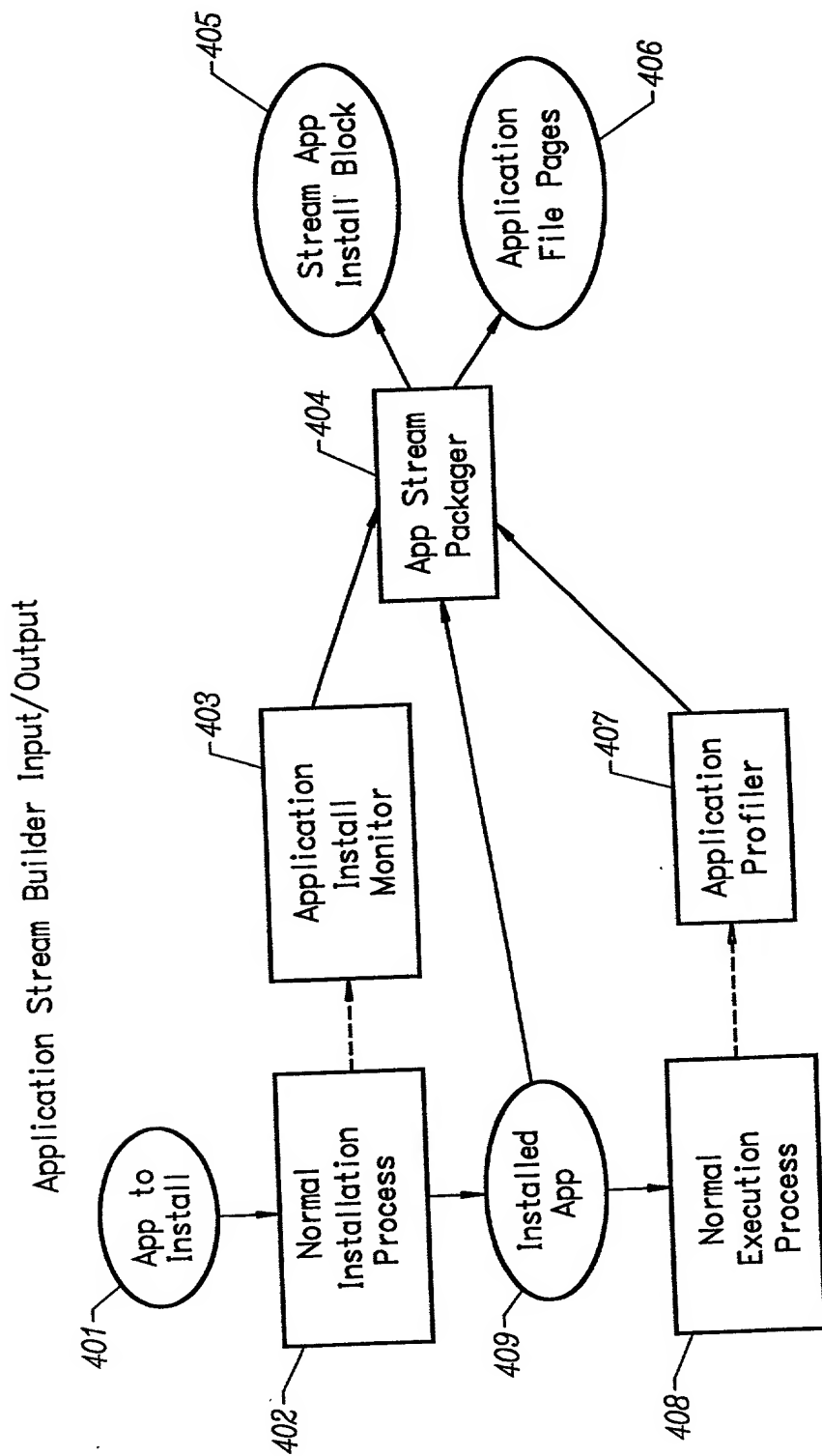
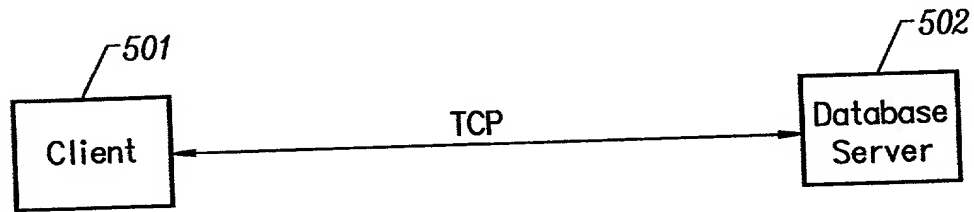


FIG. 4



Client-Server Application  
over TCP

FIG. 5A

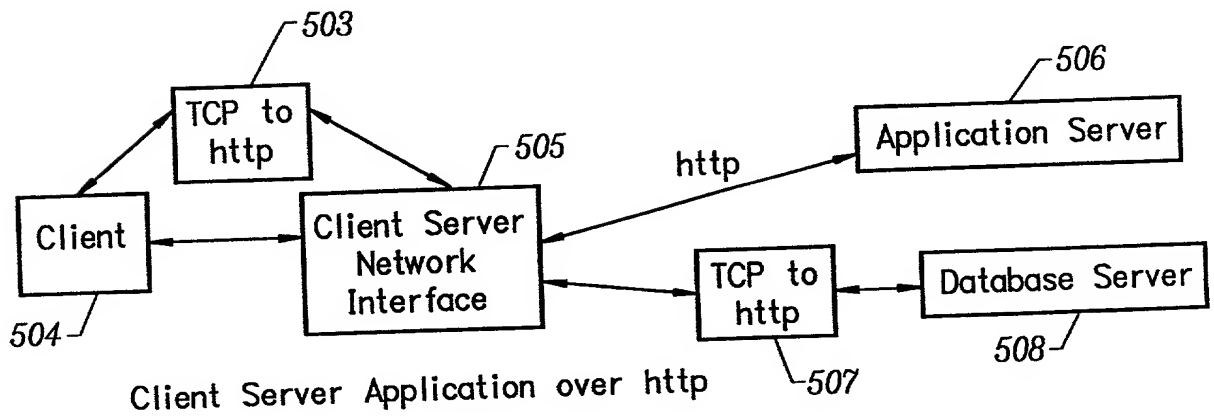


FIG. 5B

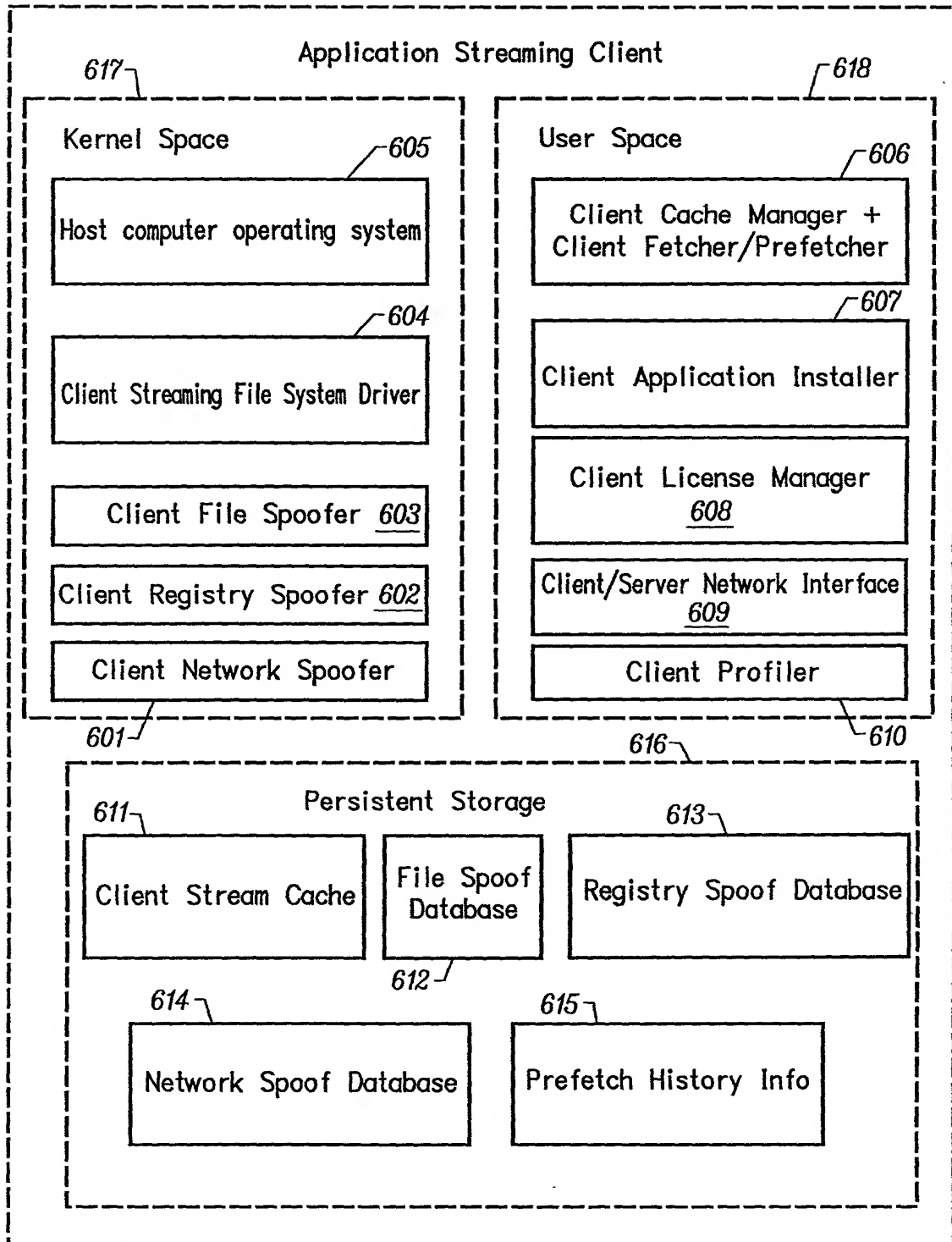


FIG. 6A

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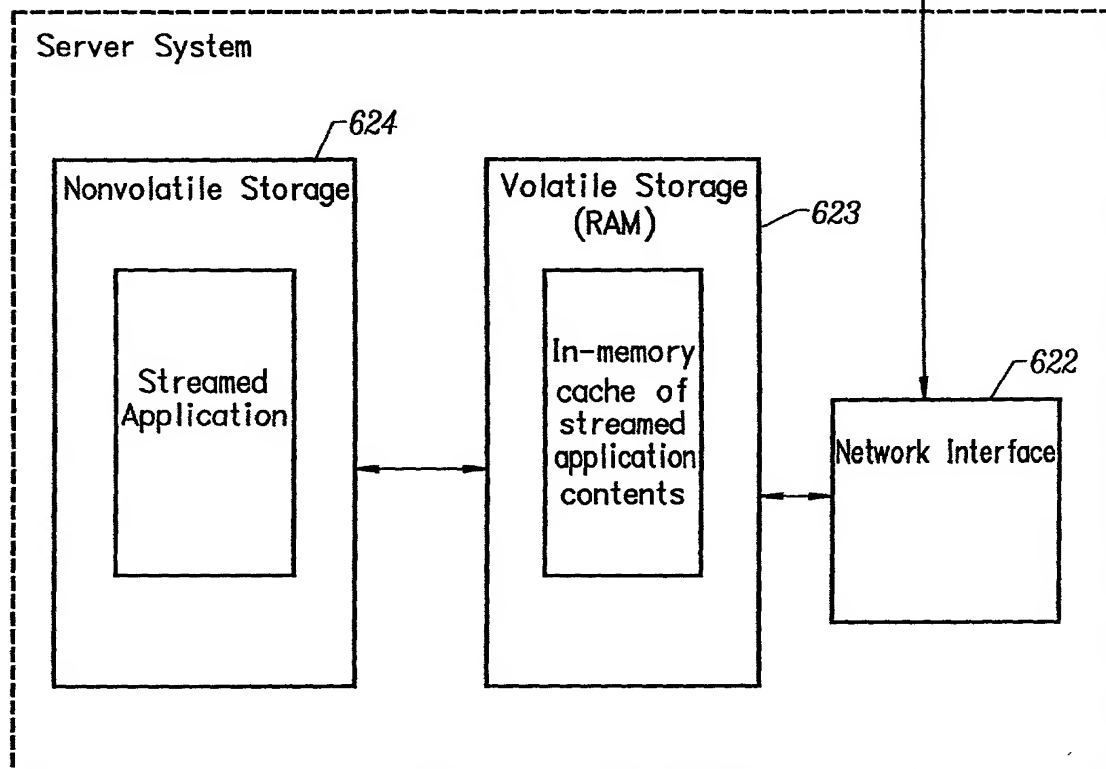
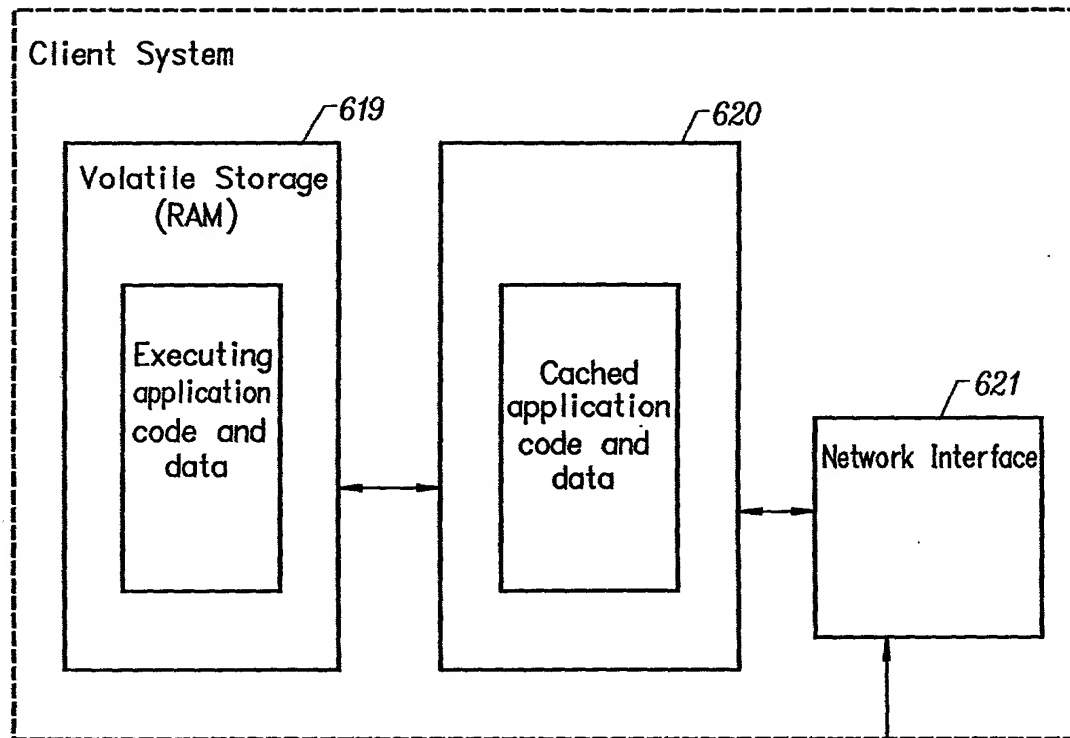


FIG. 6B

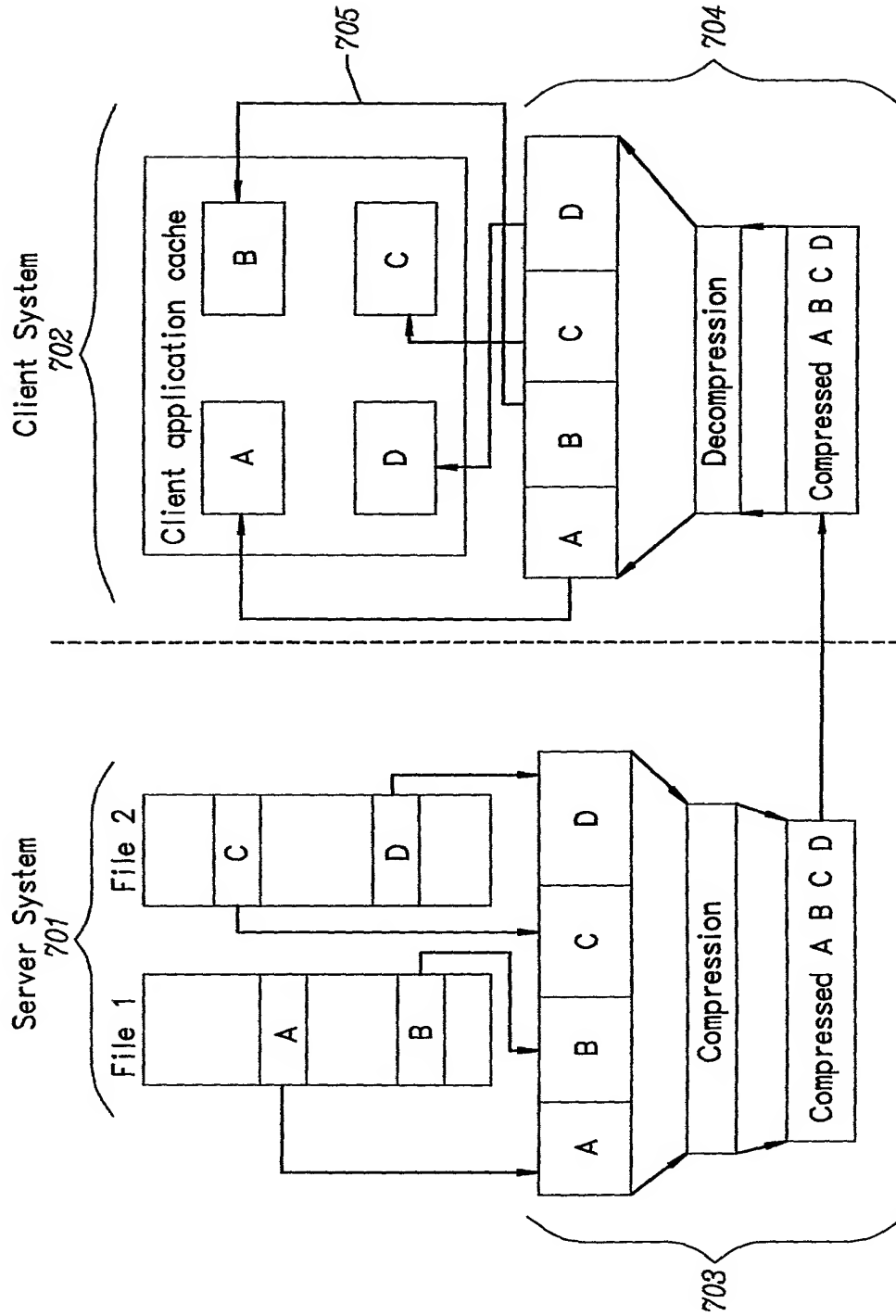


FIG. 7A



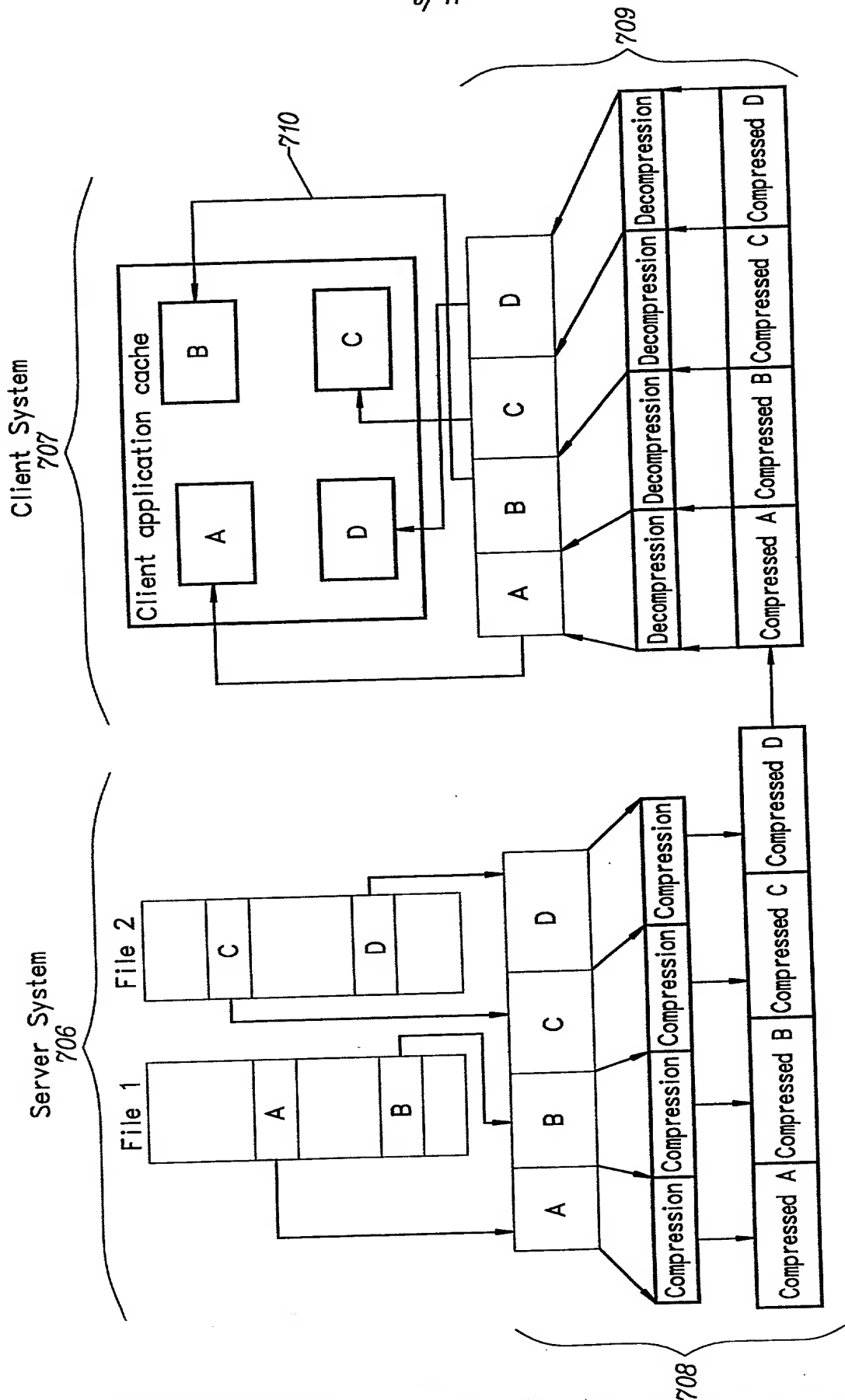


FIG. 7B

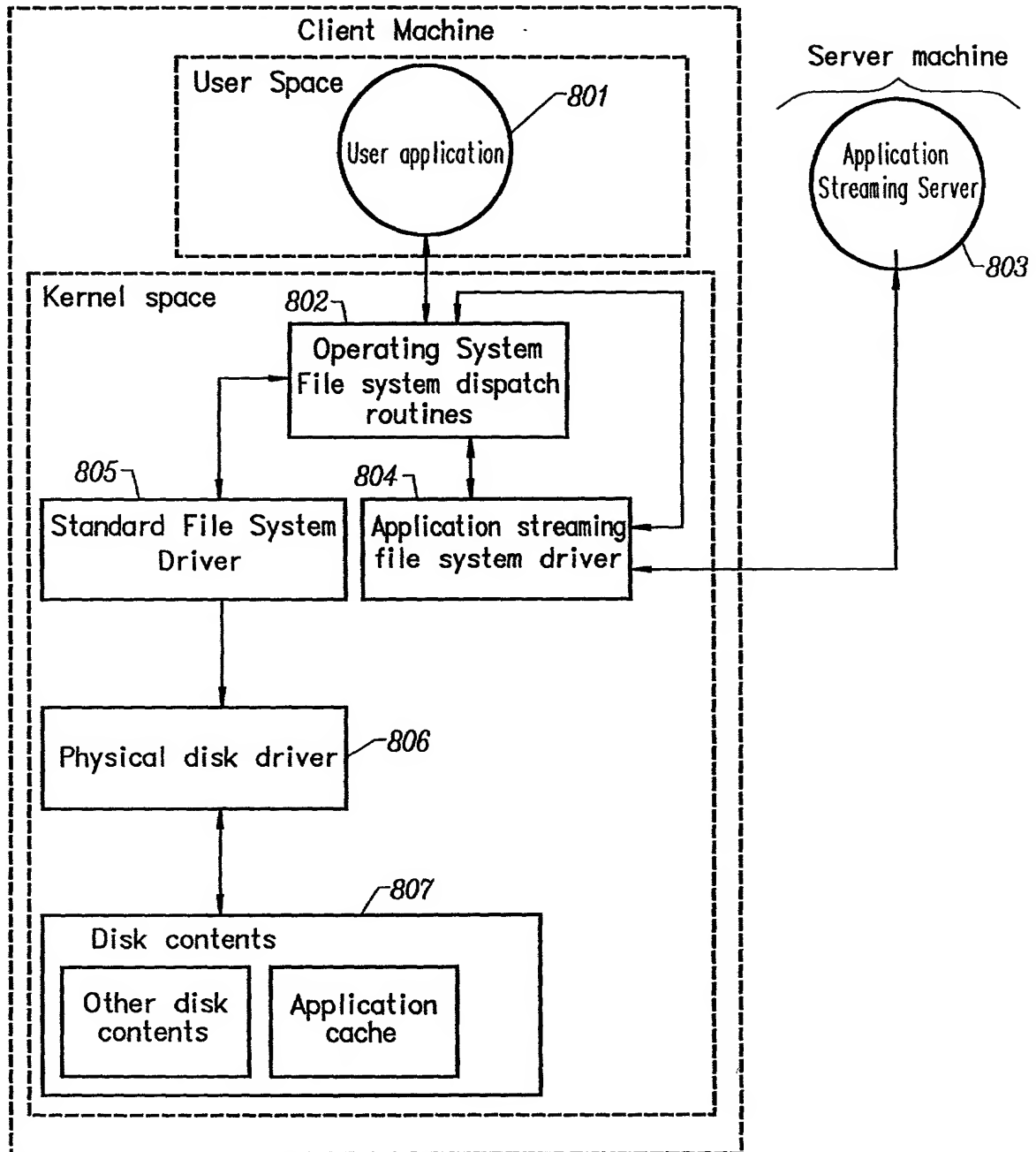


FIG. 8

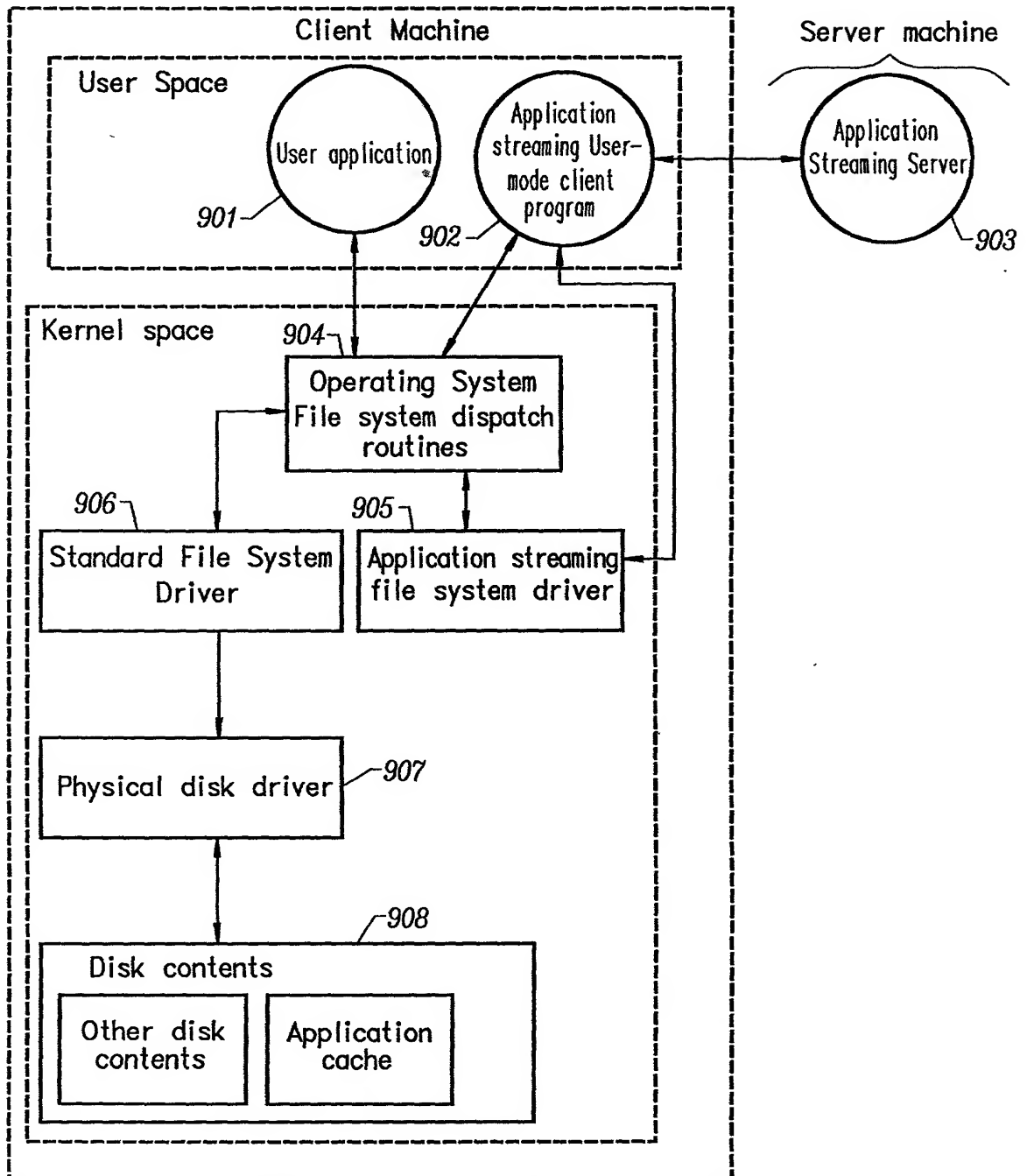


FIG. 9

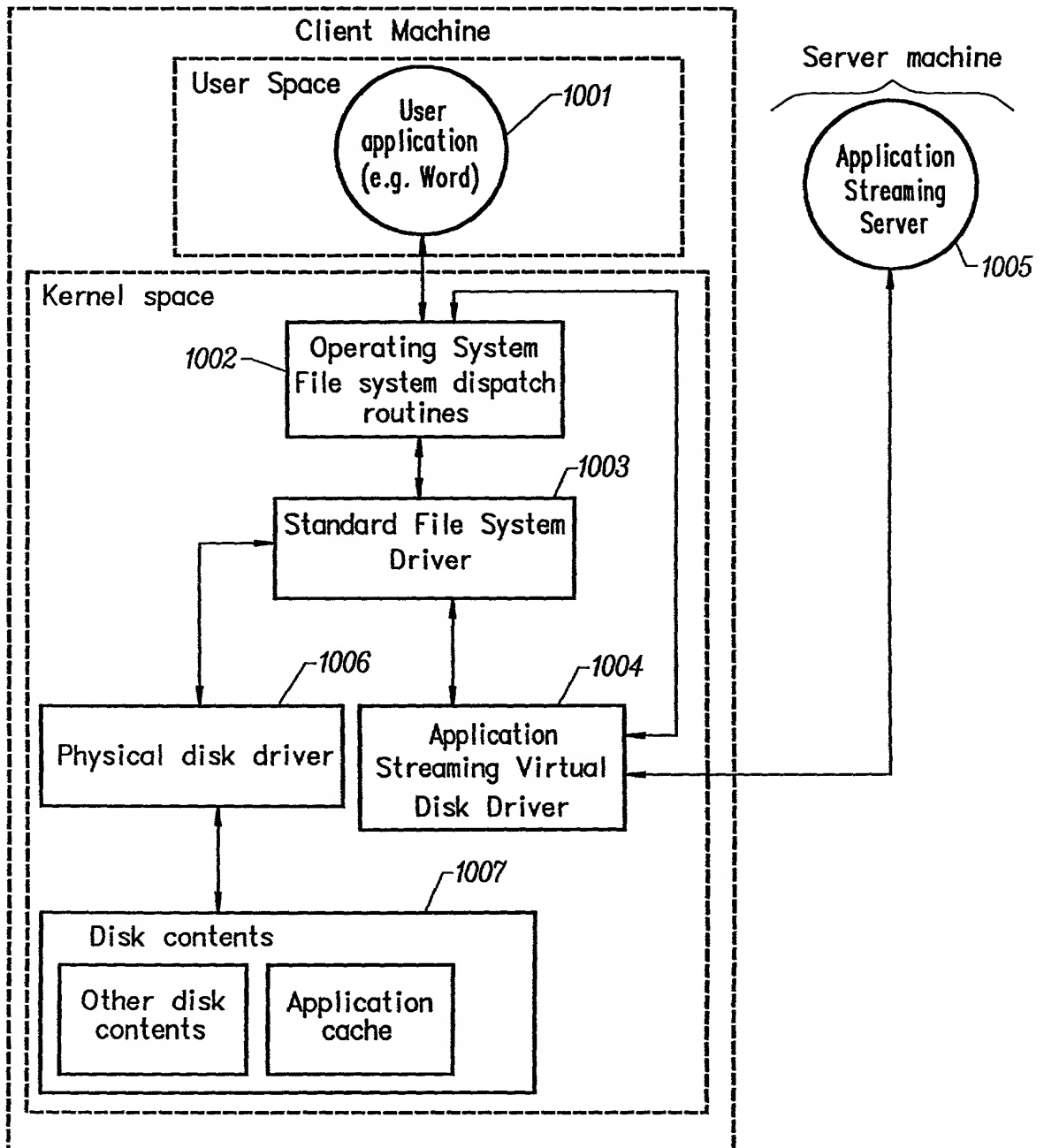


FIG. 10

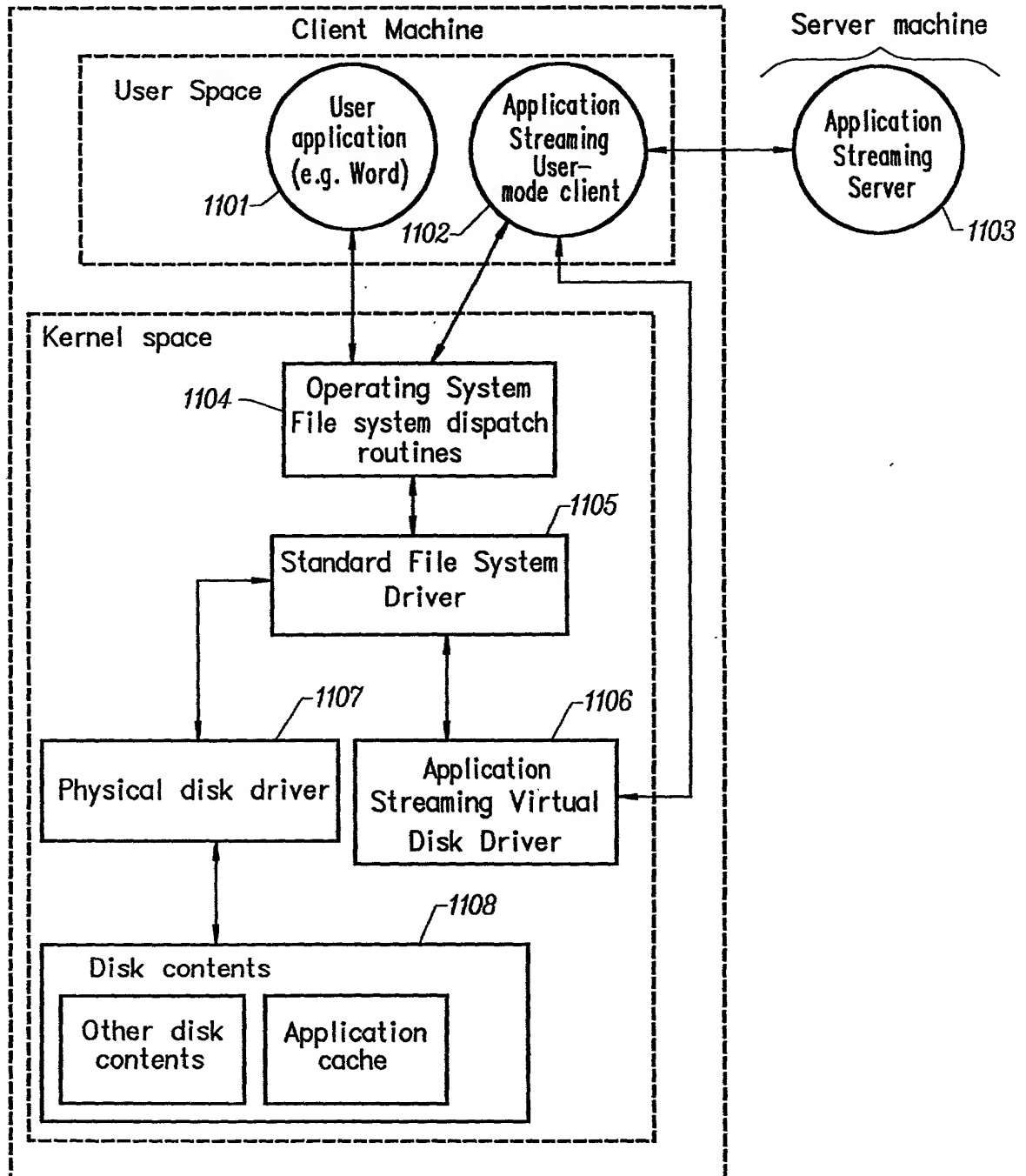
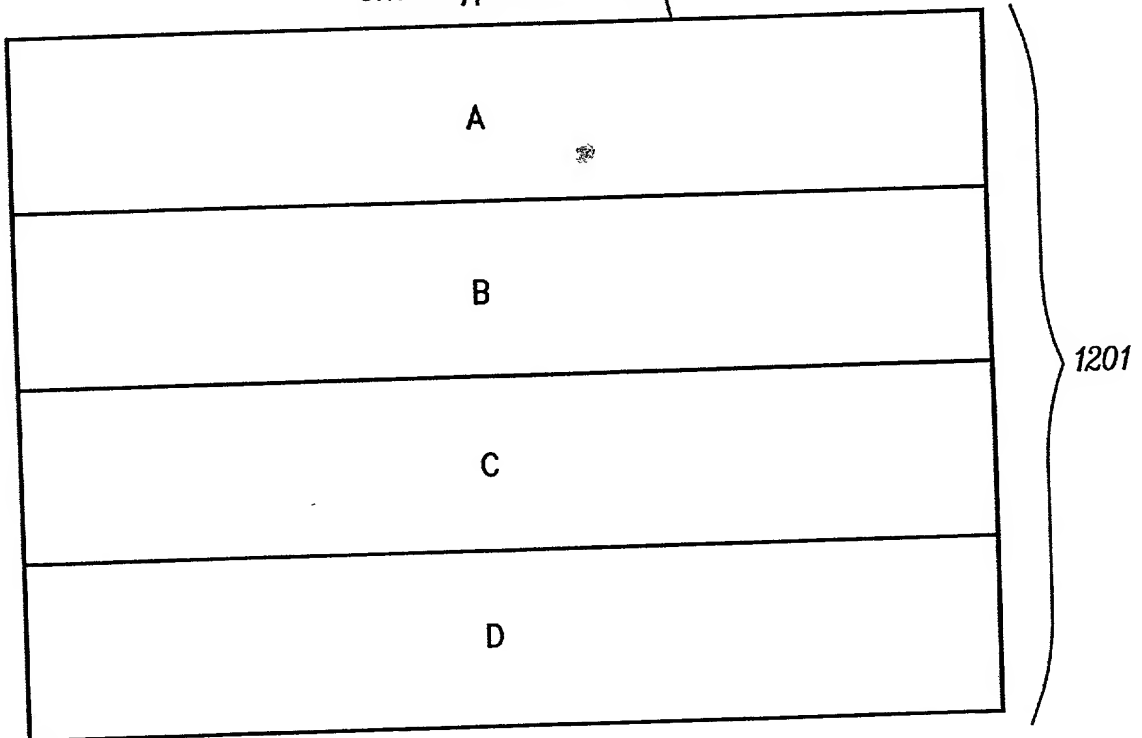


FIG. 11

Unencrypted Cache



Encrypted Cache

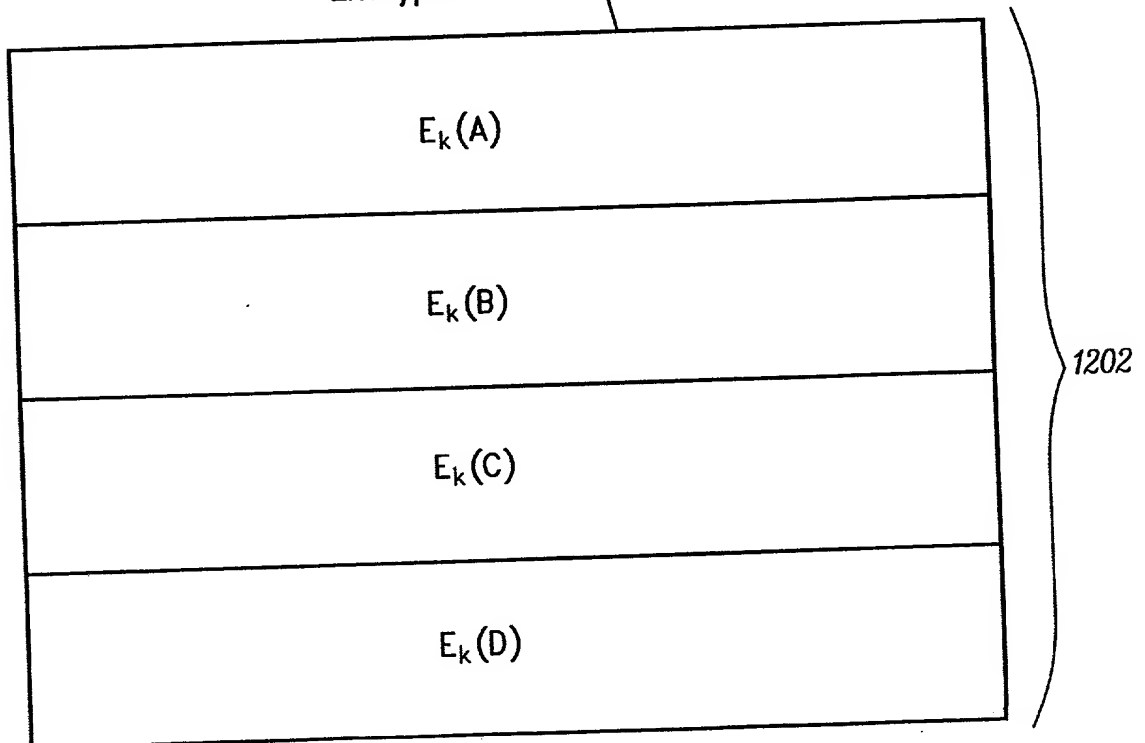


FIG. 12

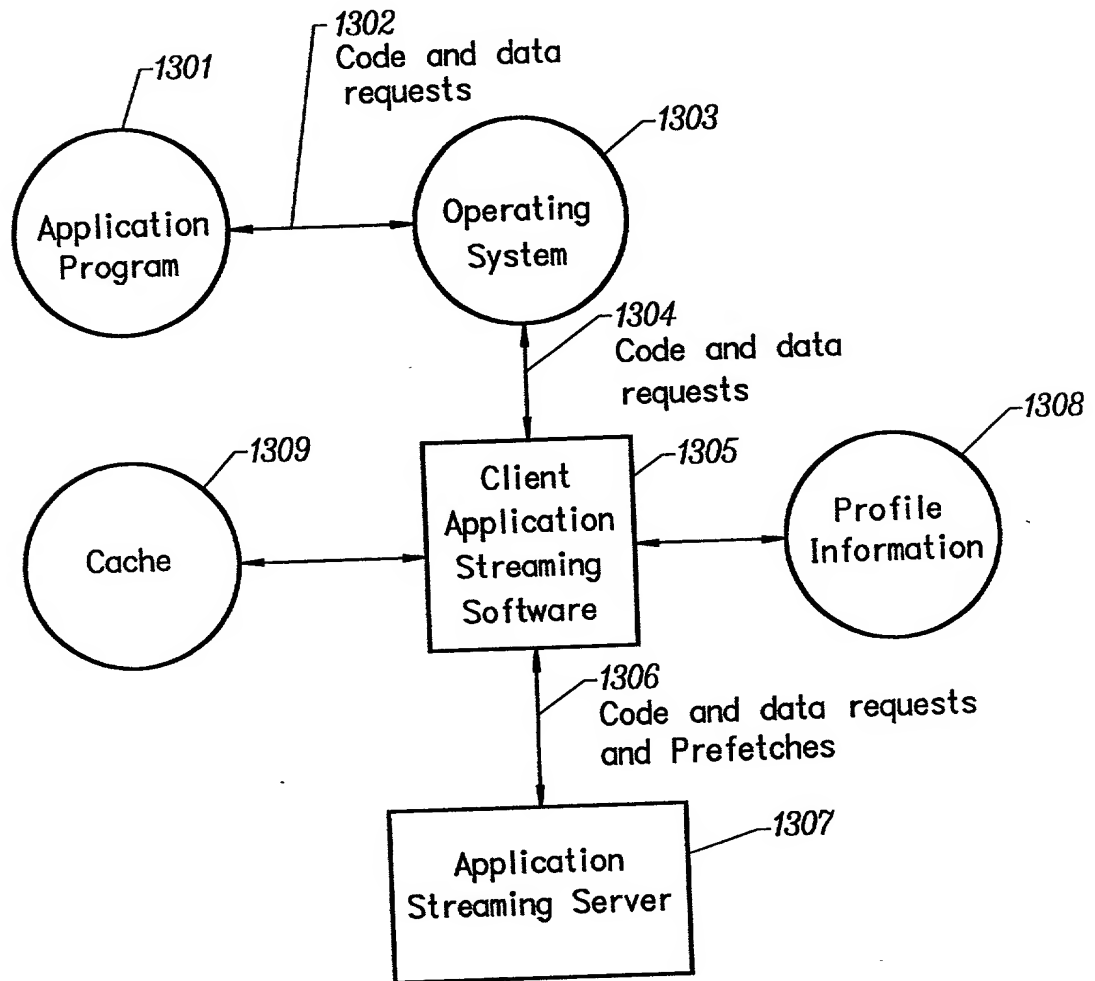


FIG. 13

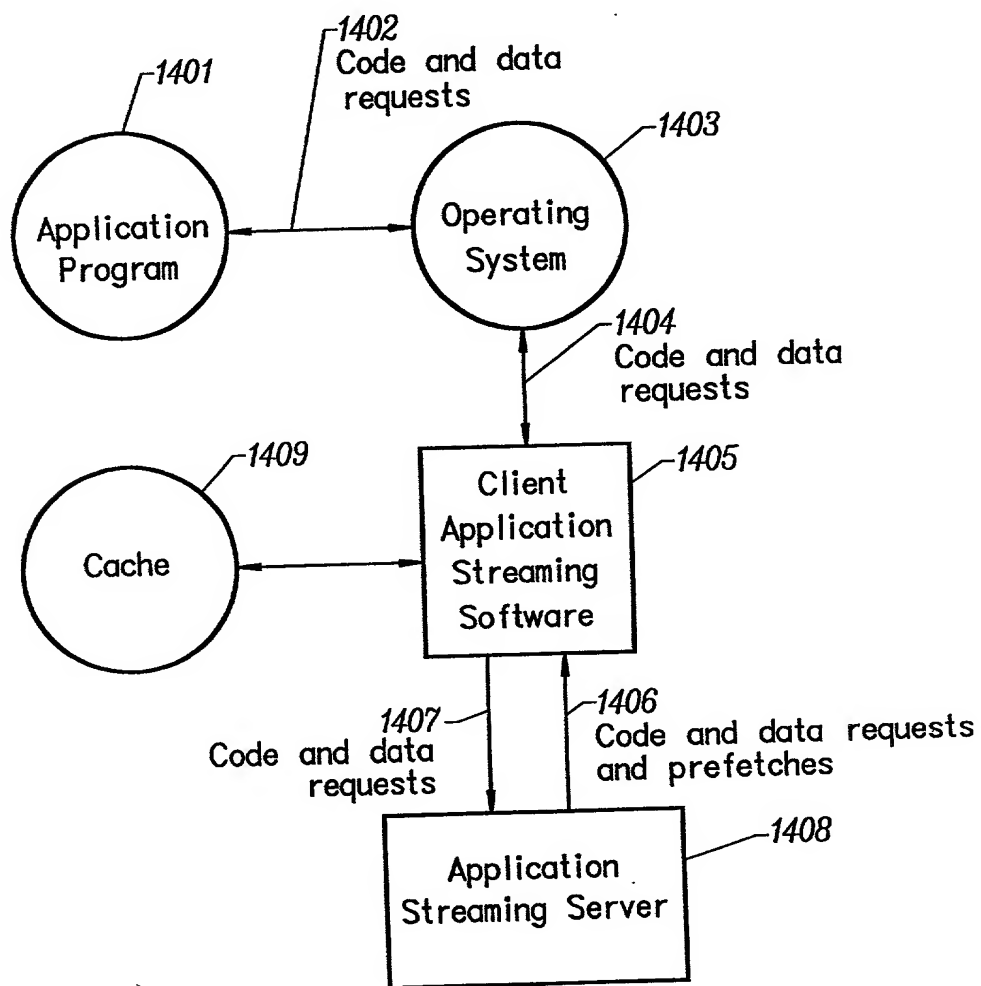


FIG. 14



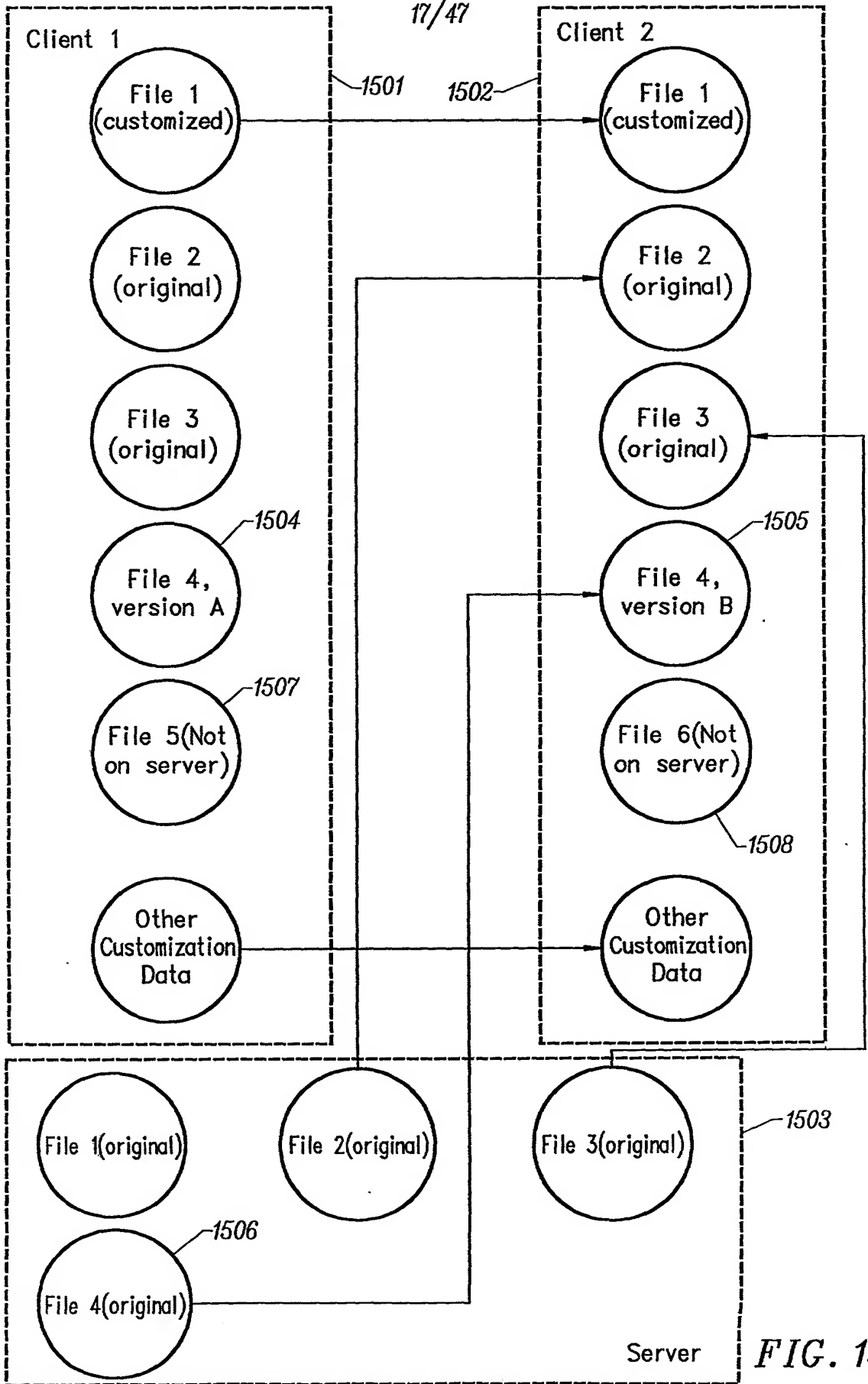


FIG. 15

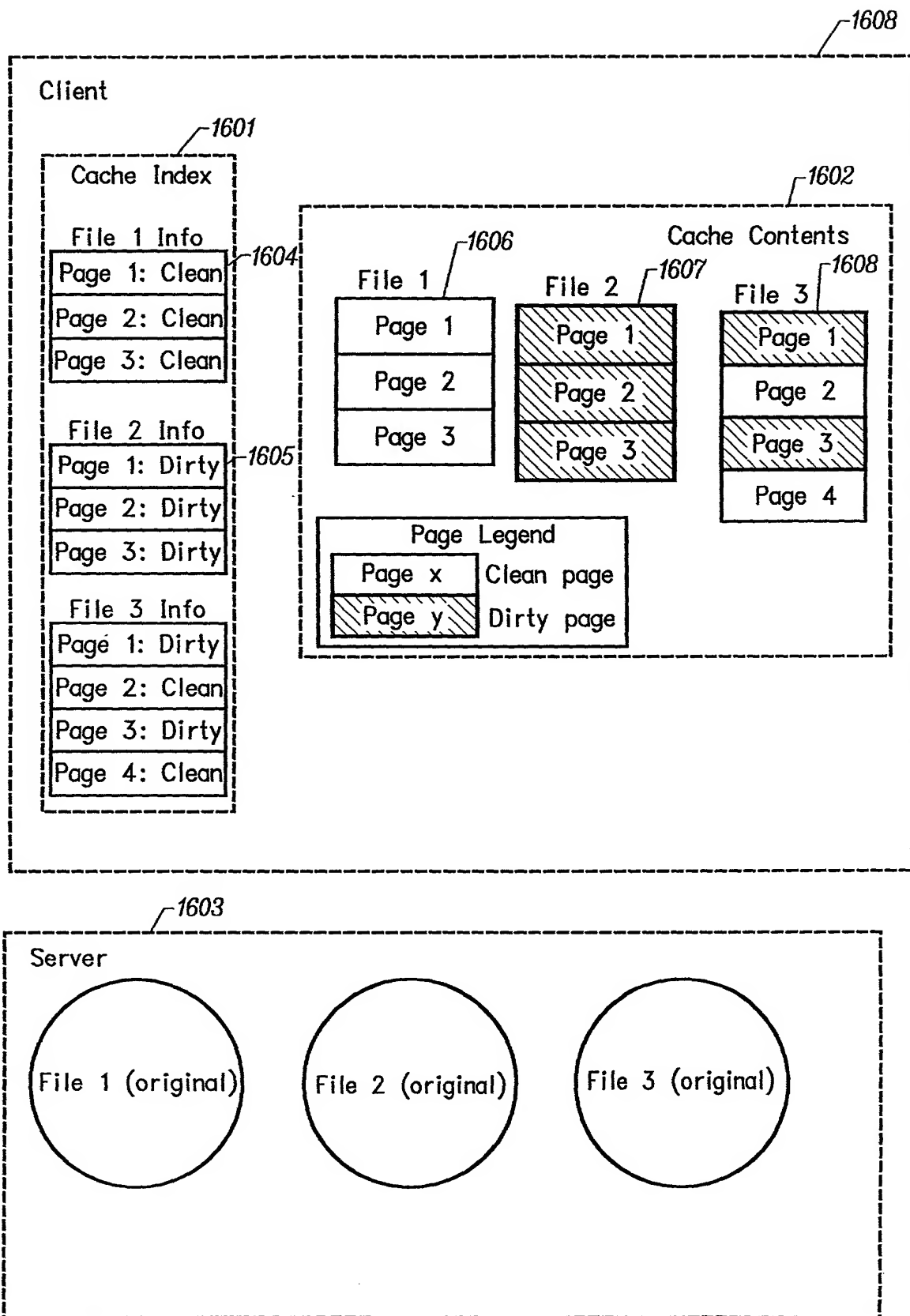


FIG. 16

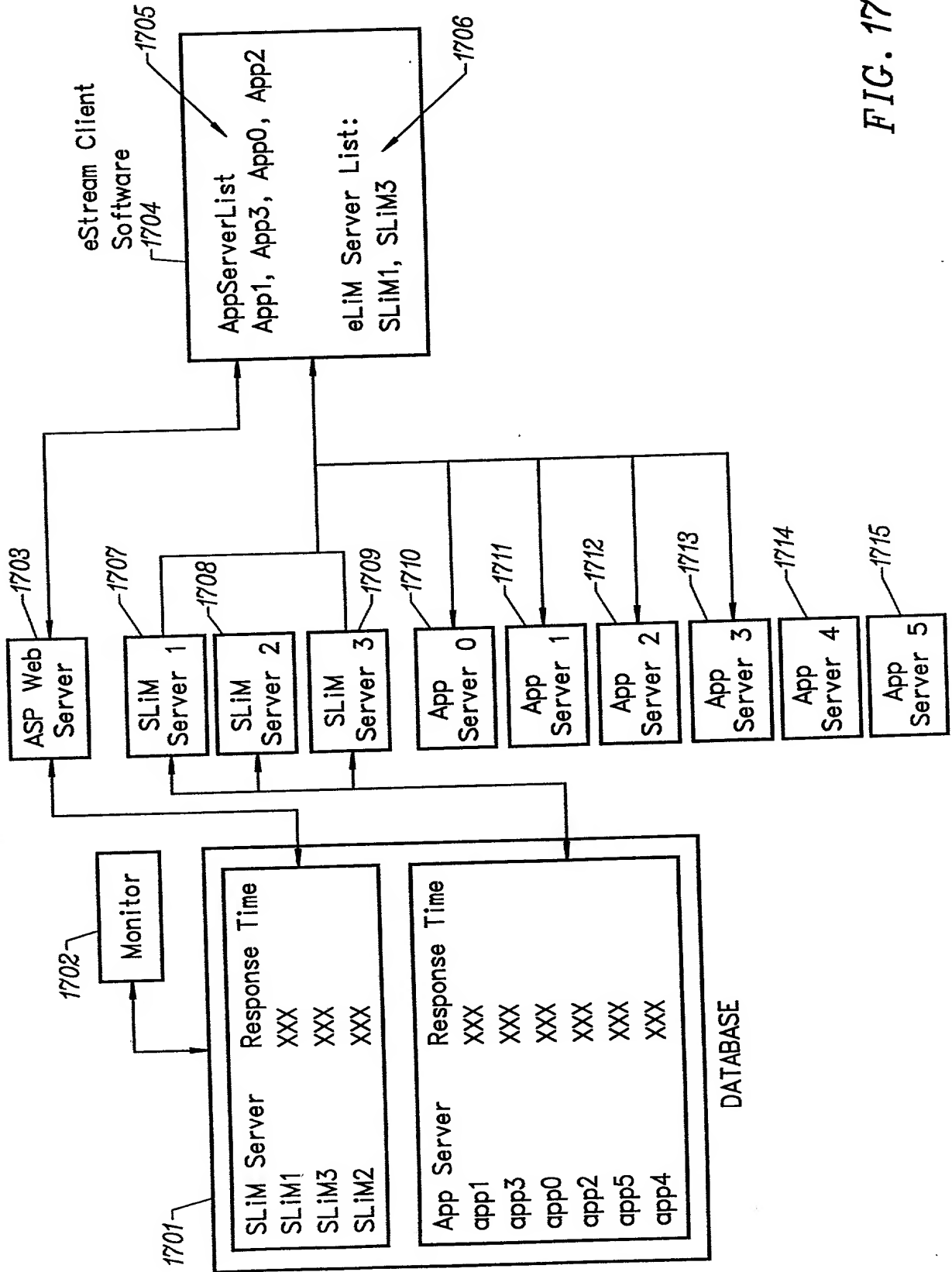
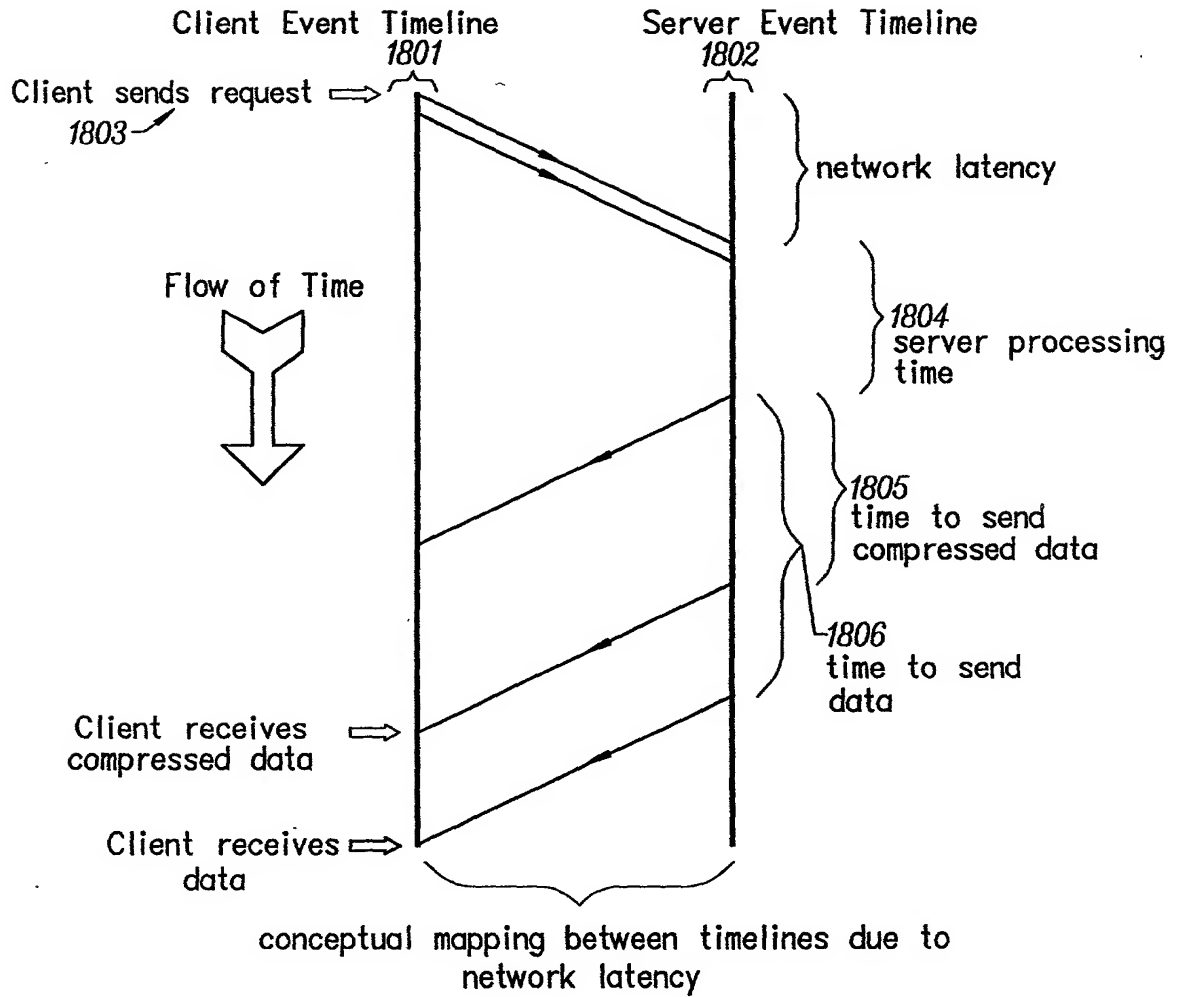


FIG. 17



Client receives data sooner if it is compressed

FIG. 18

# Pre-Compression

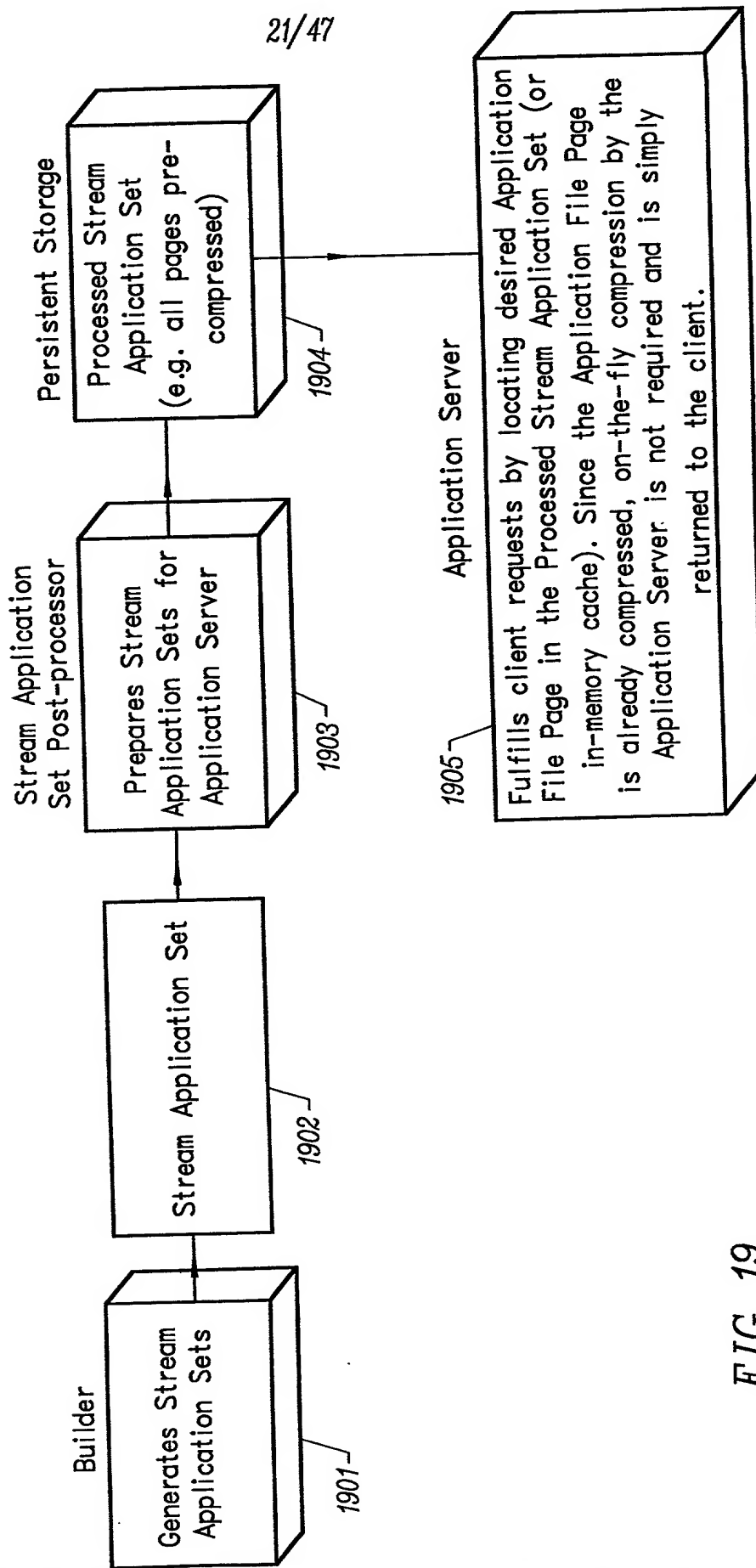
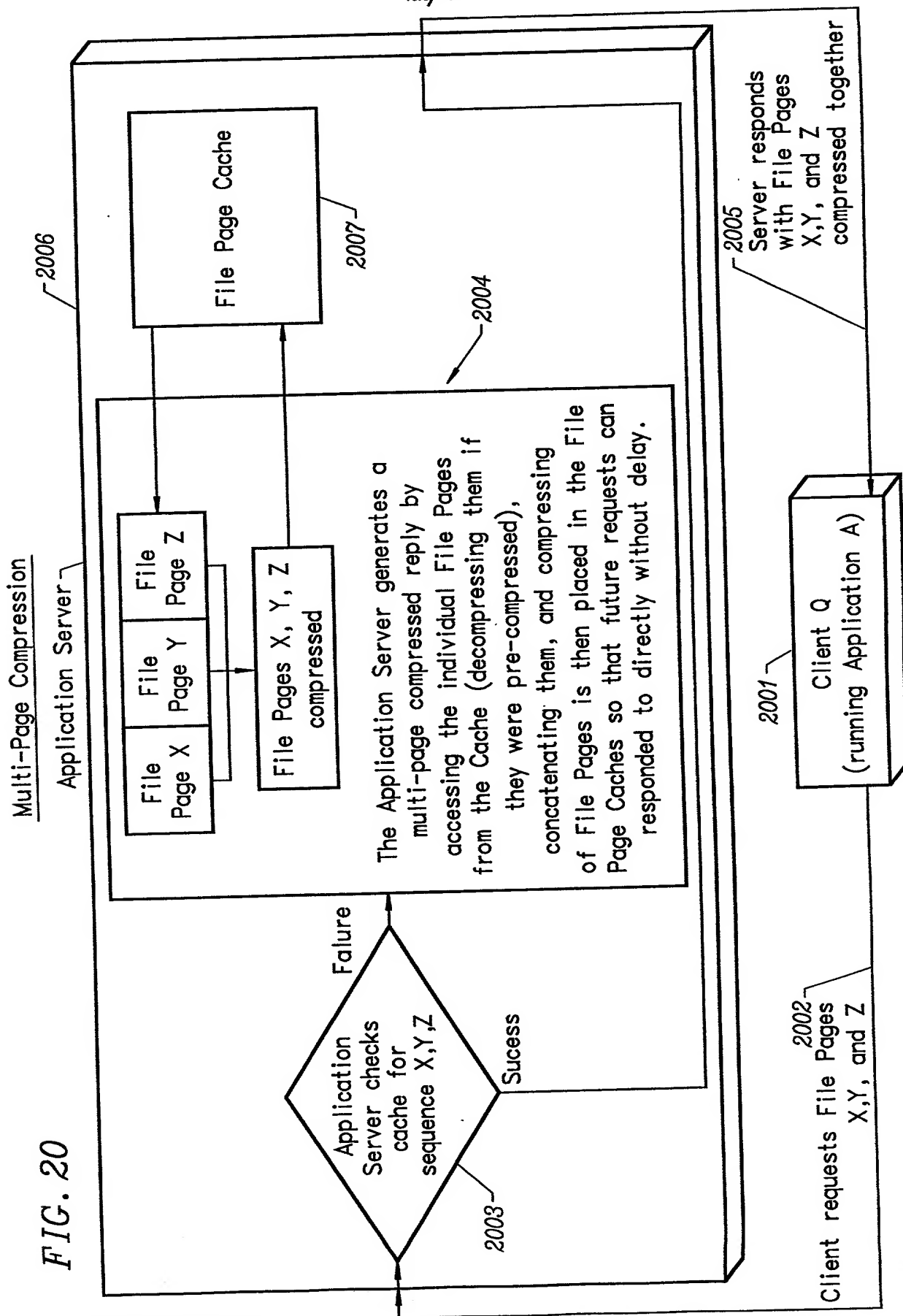


FIG. 19



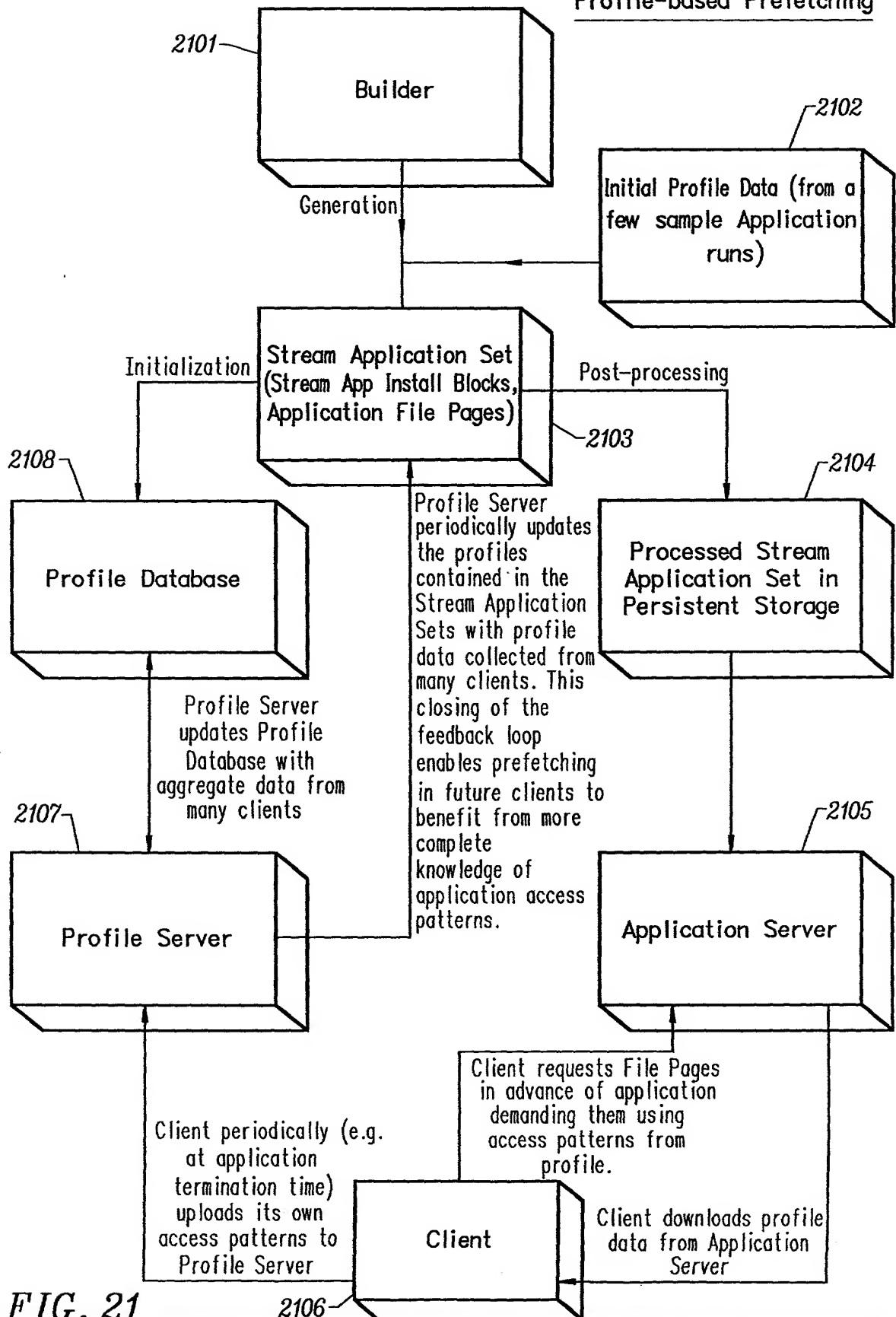
Profile-based Prefetching

FIG. 21

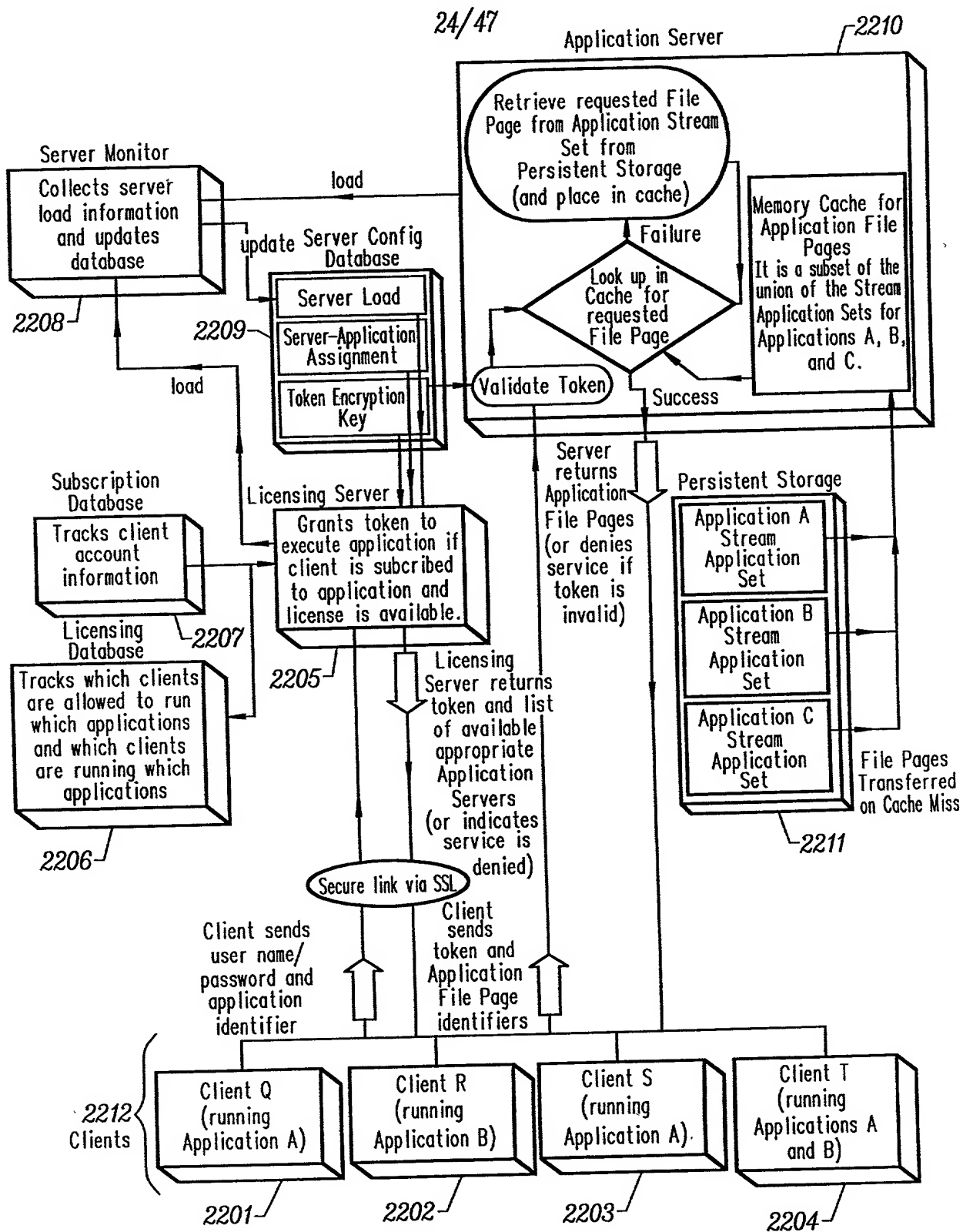


FIG. 22



Builder Install Monitor (IM) Control Flow Diagram

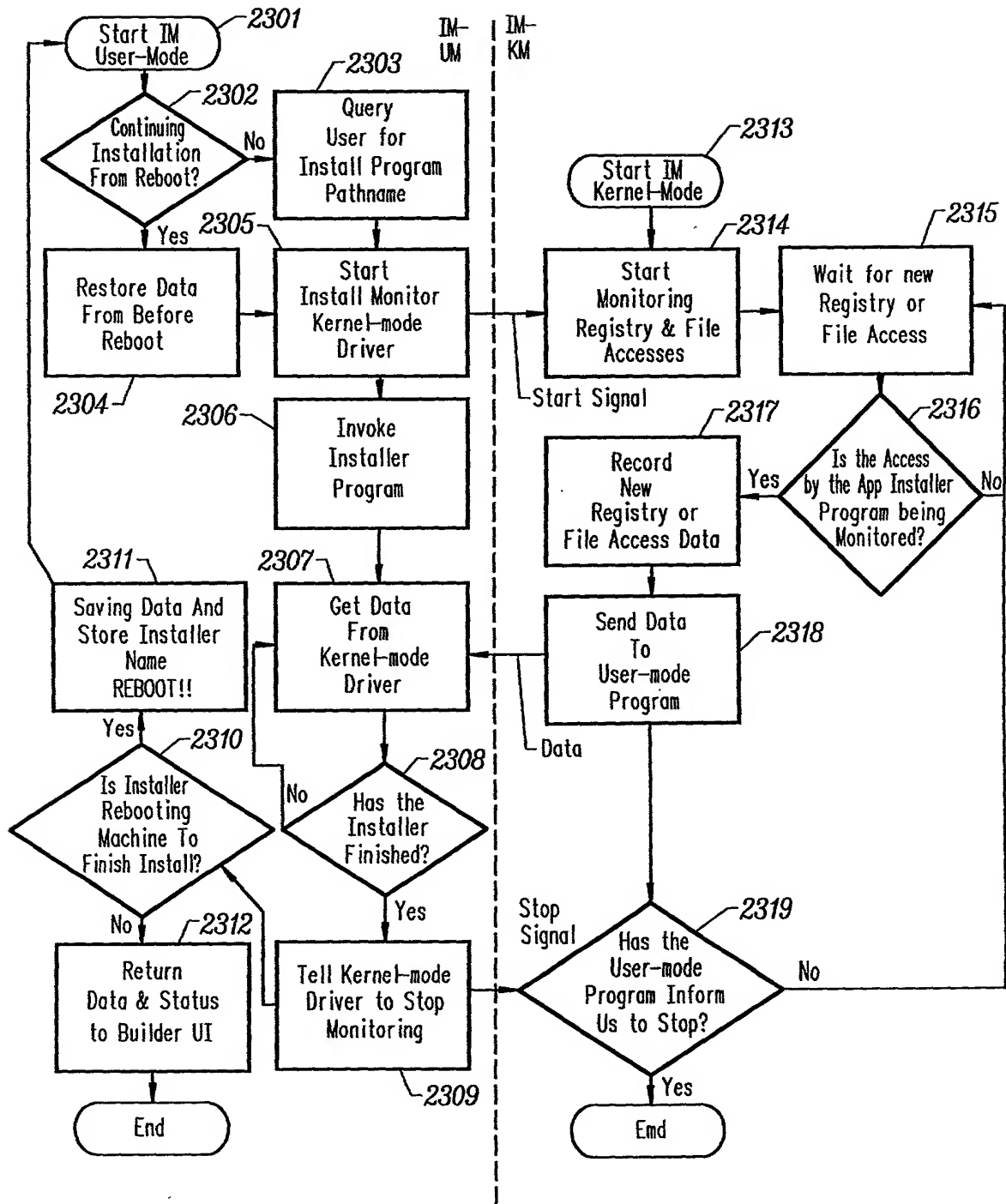


FIG. 23

## Builder Application Profiler (AP) Control Flow Diagram

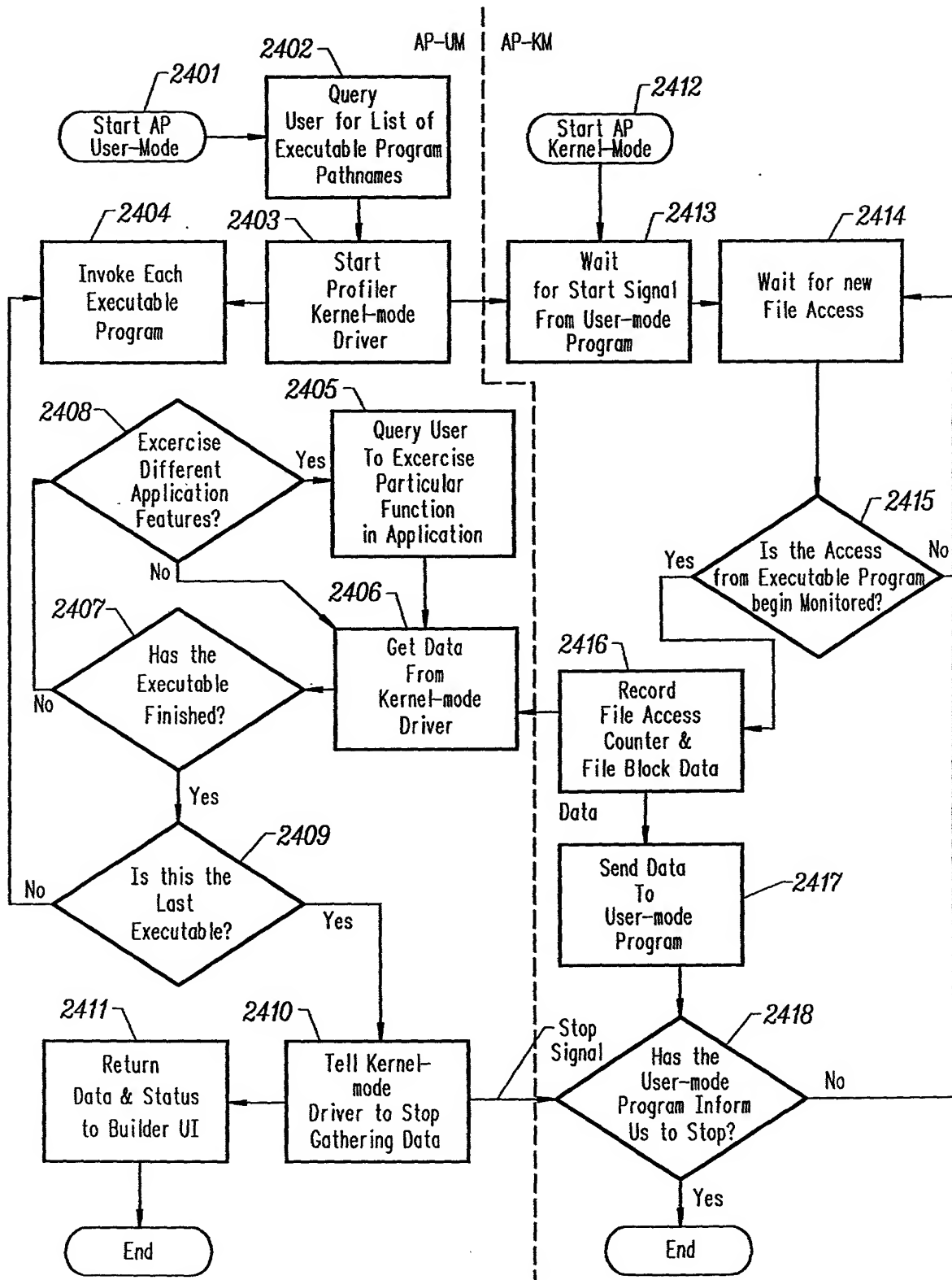


FIG. 24

## Builder SAS Packager (SP) Control Flow Diagram

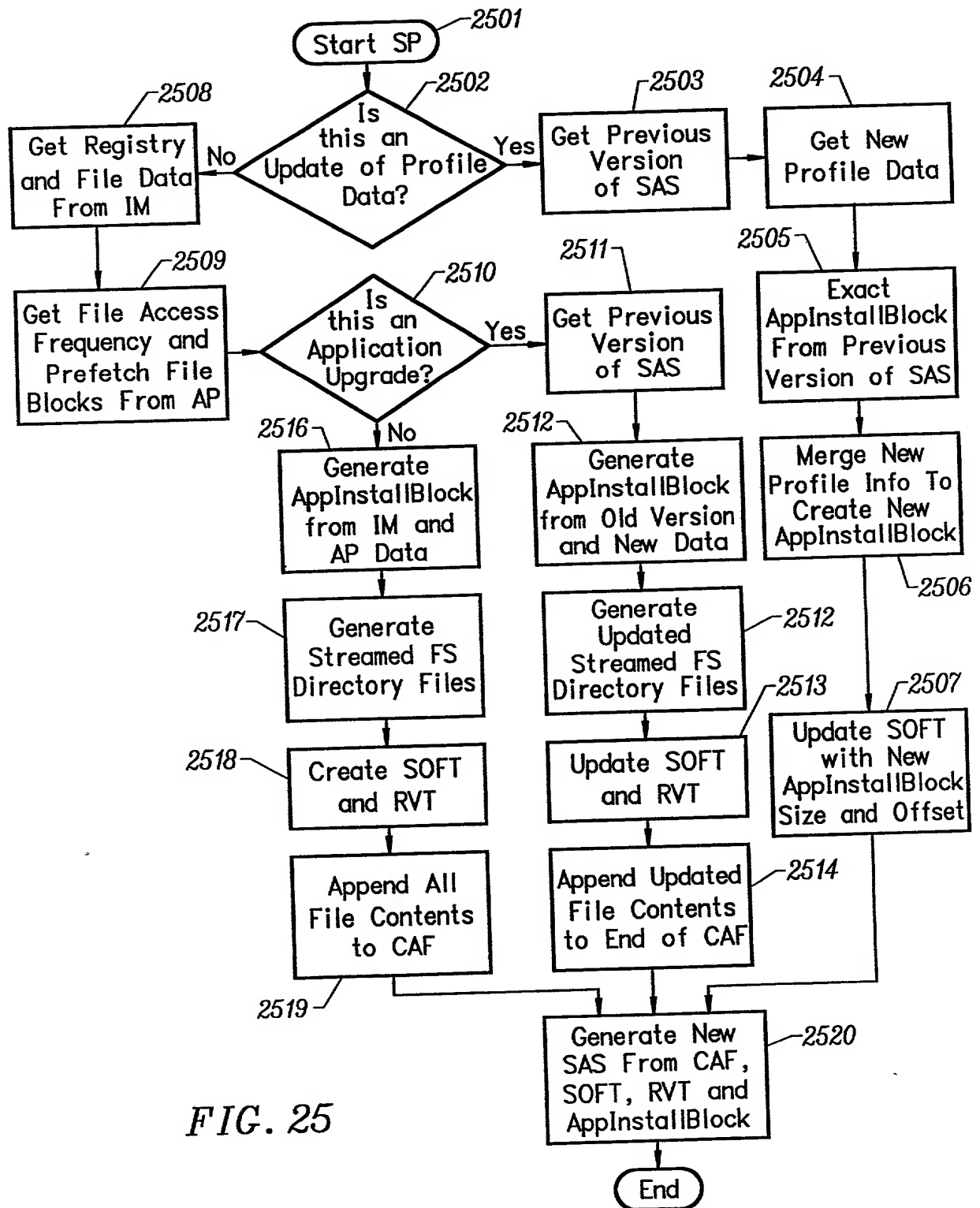


FIG. 25

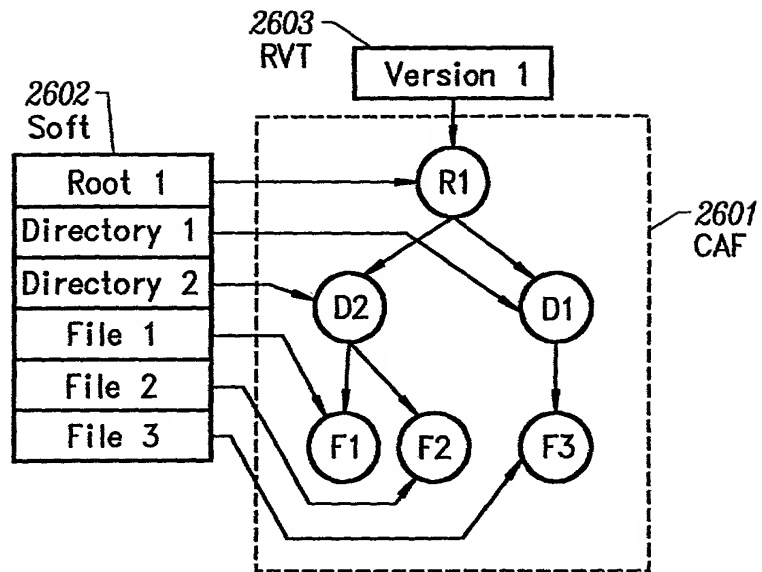


FIG. 26A

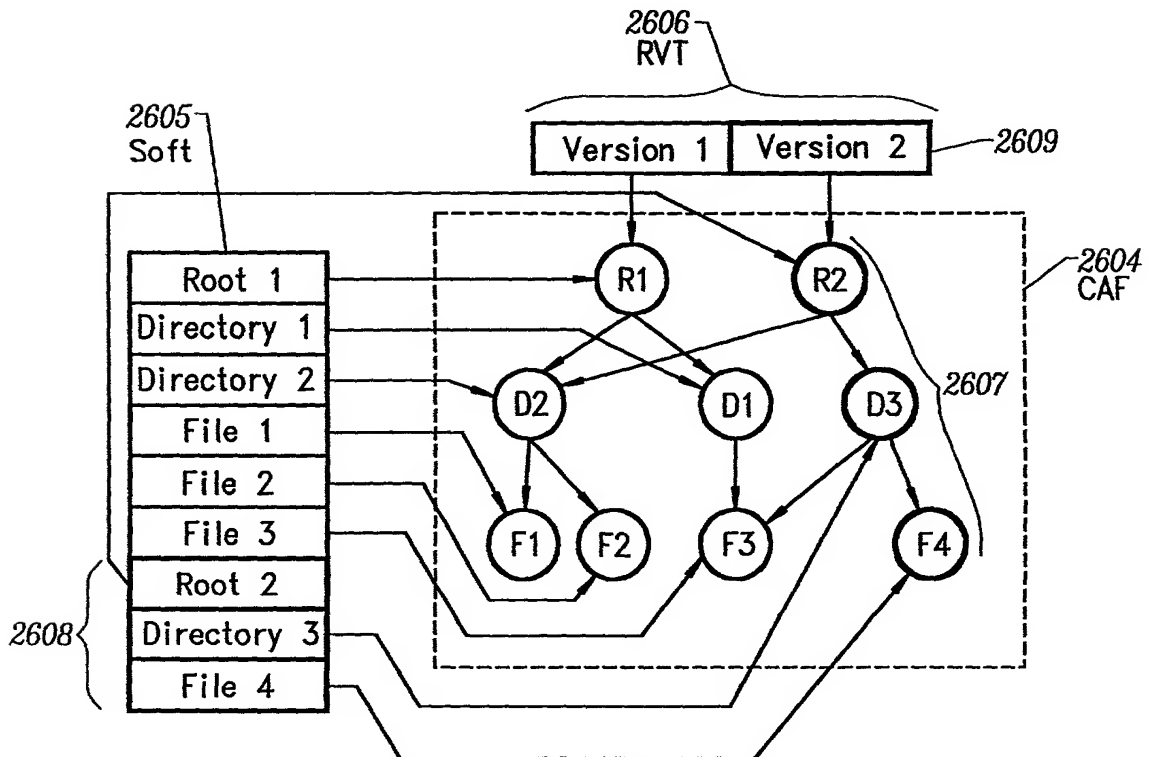


FIG. 26B

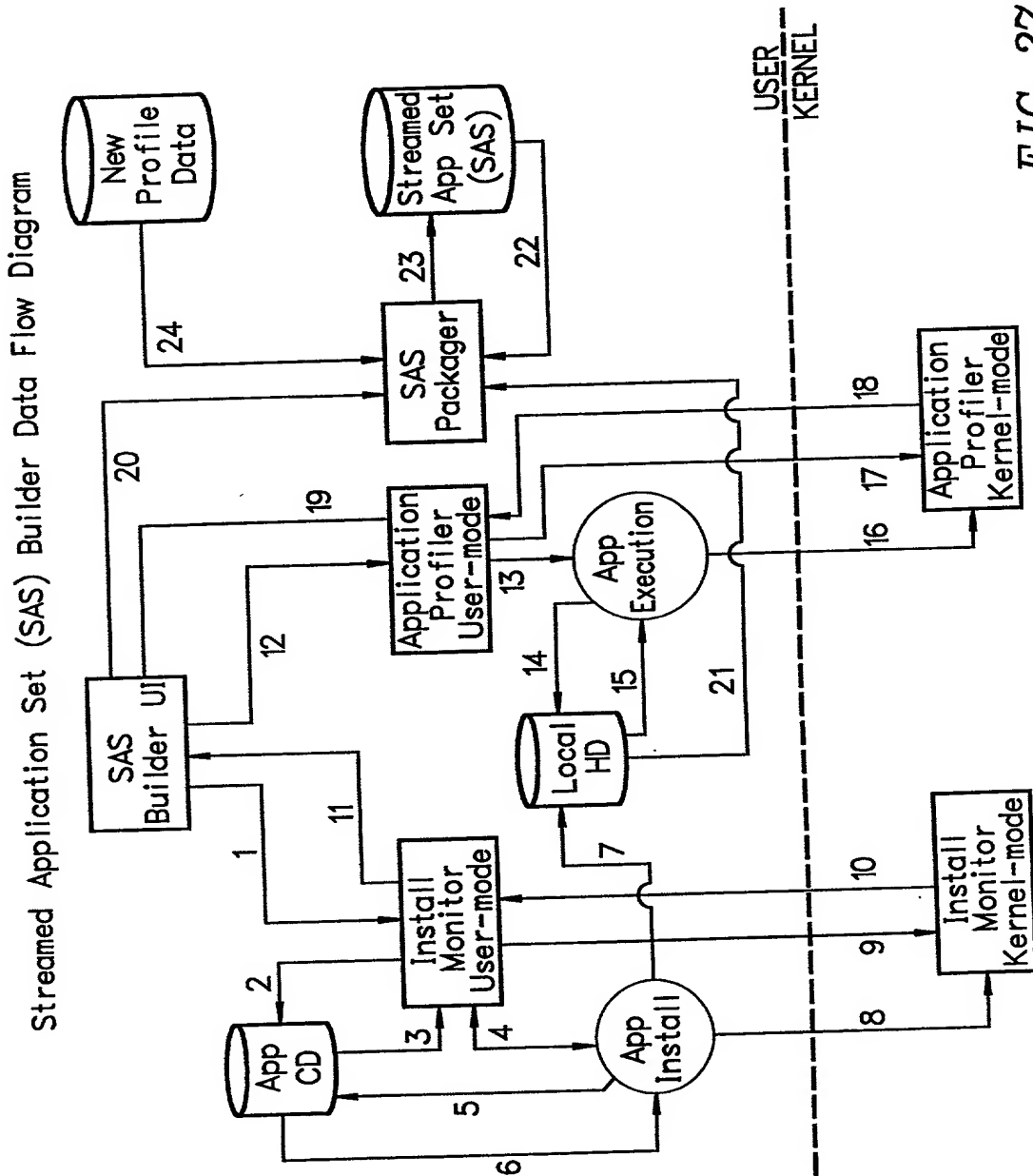


FIG. 27

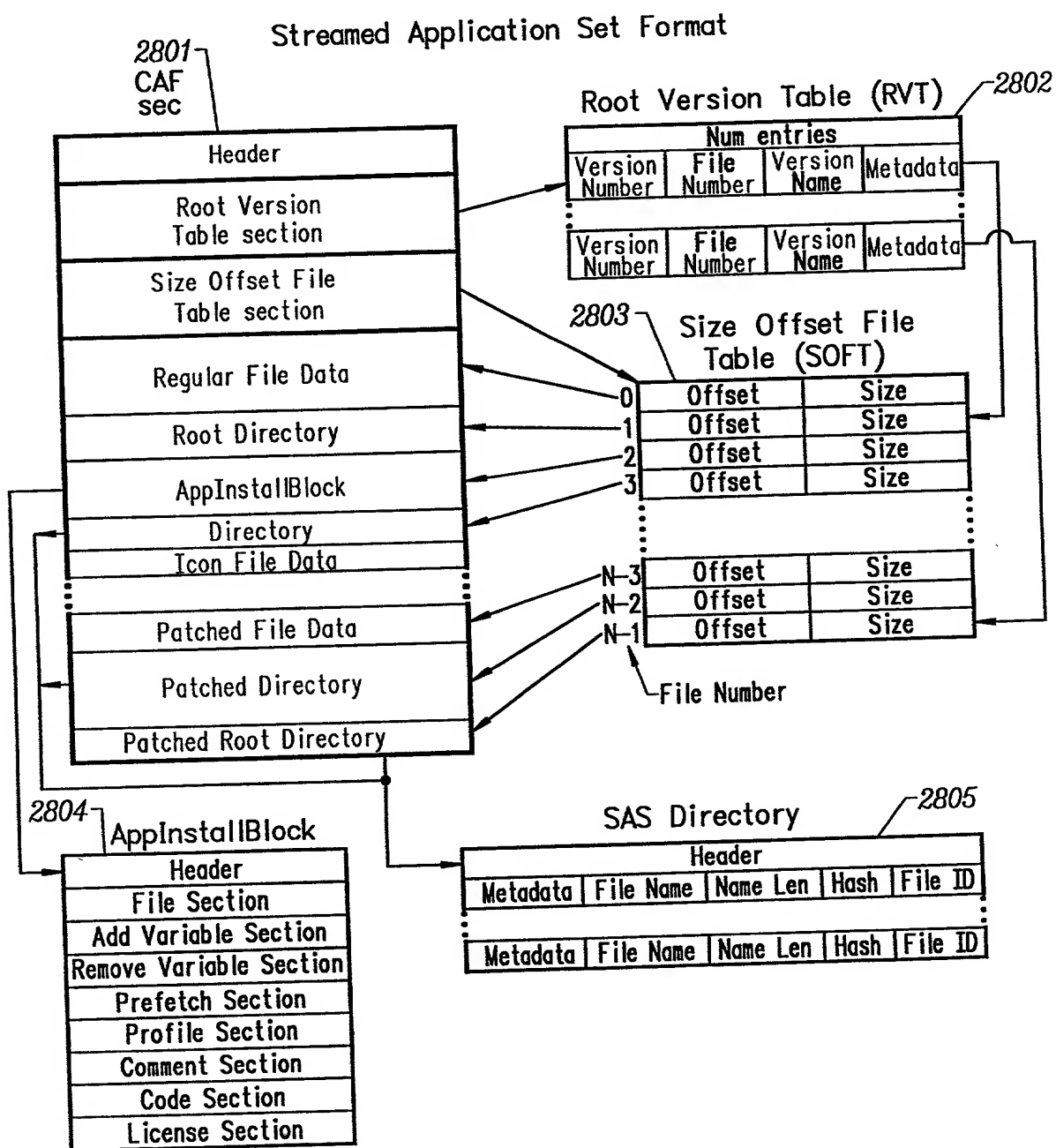


FIG. 28

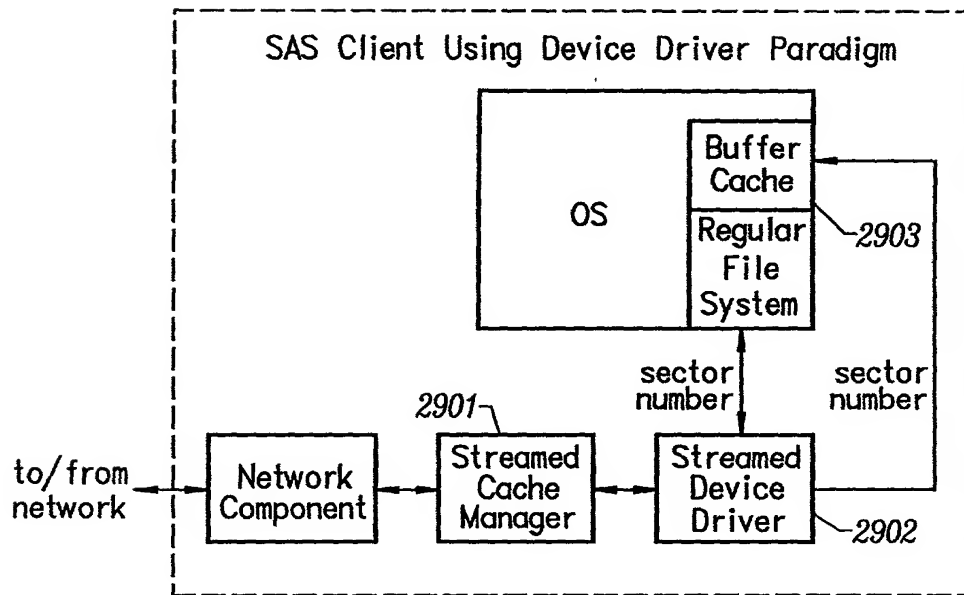


FIG. 29

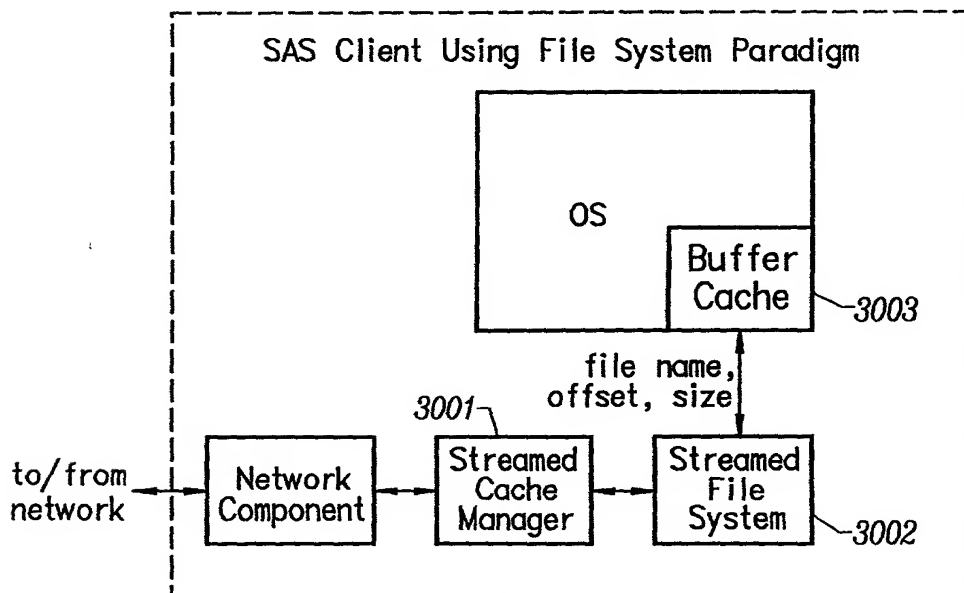


FIG. 30

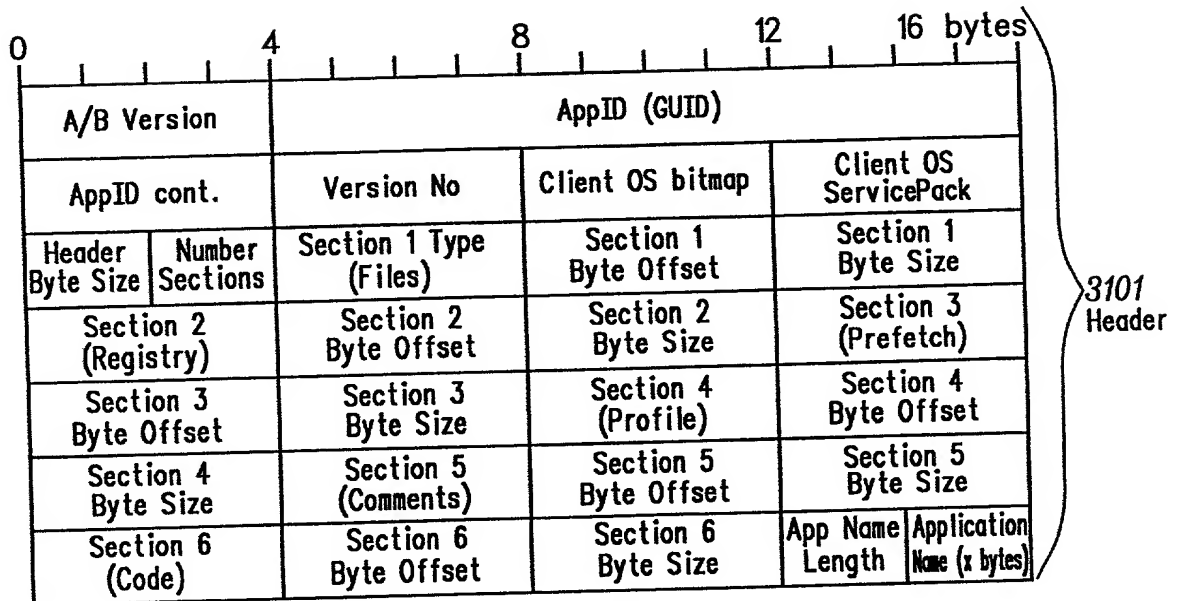


FIG. 31A

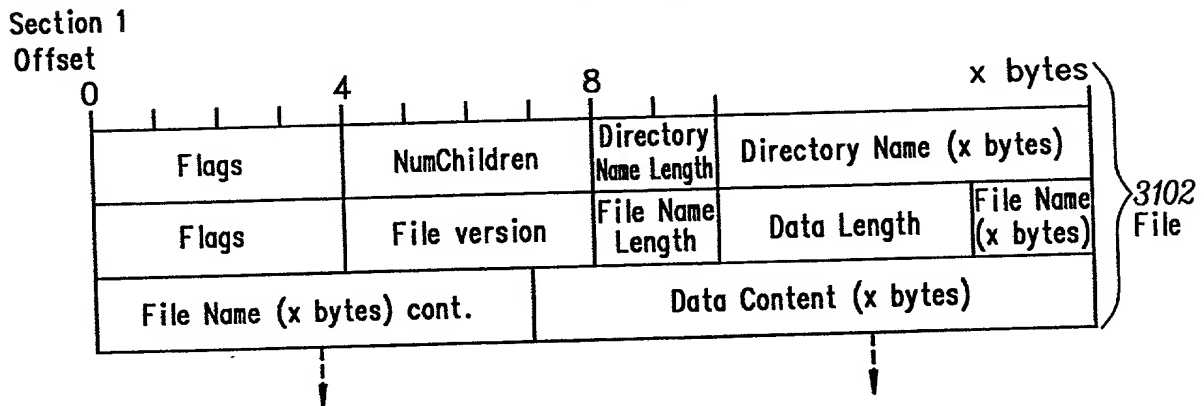


FIG. 31B

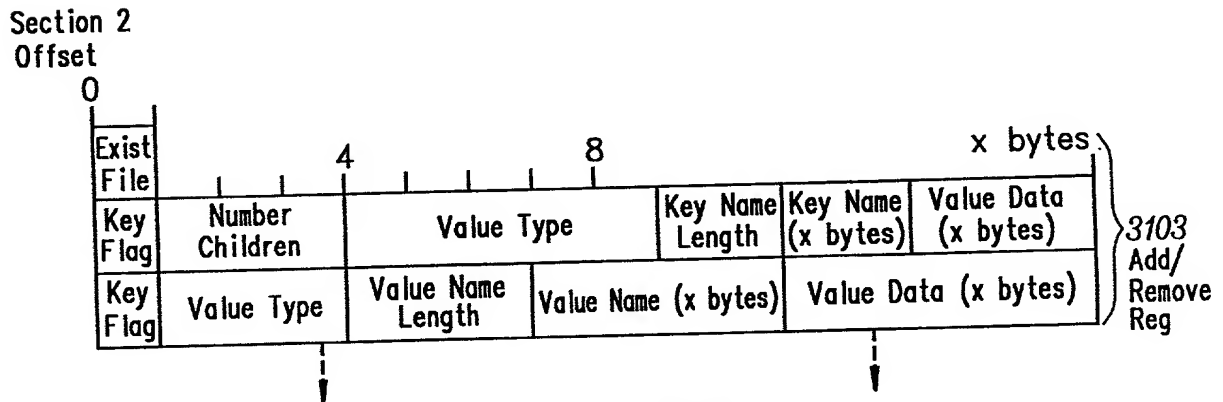


FIG. 31C



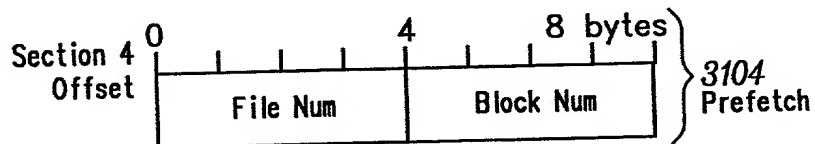


FIG. 31D

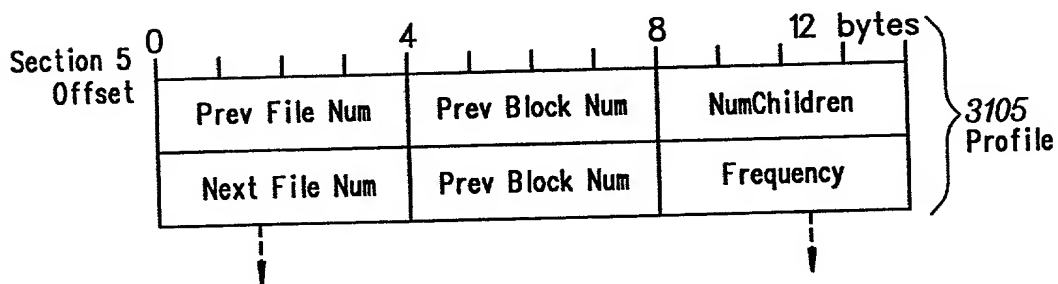


FIG. 31E

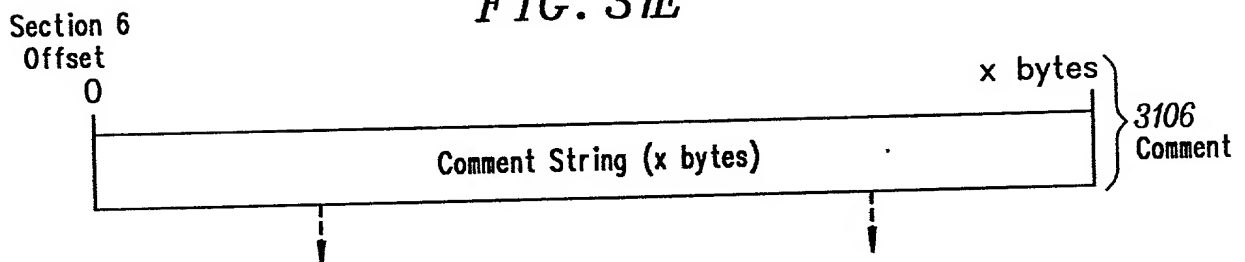


FIG. 31F

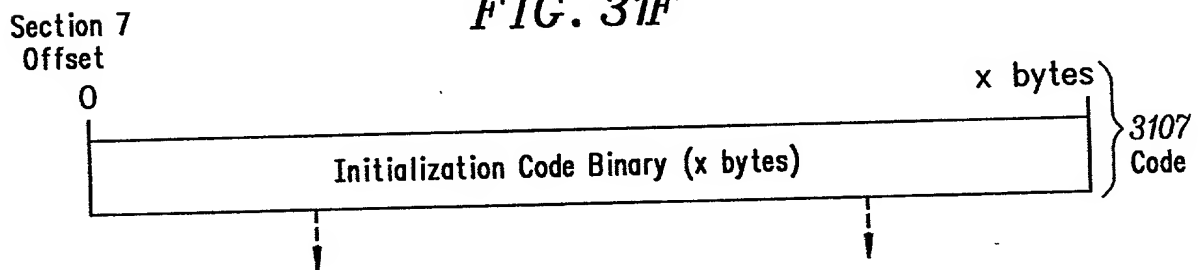


FIG. 31G

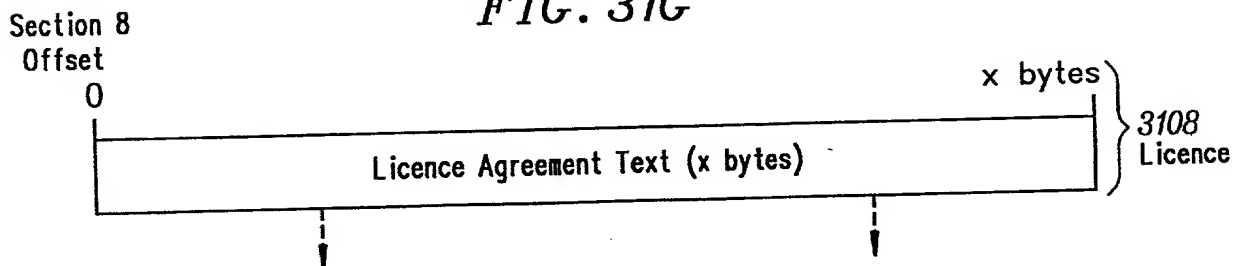


FIG. 31H

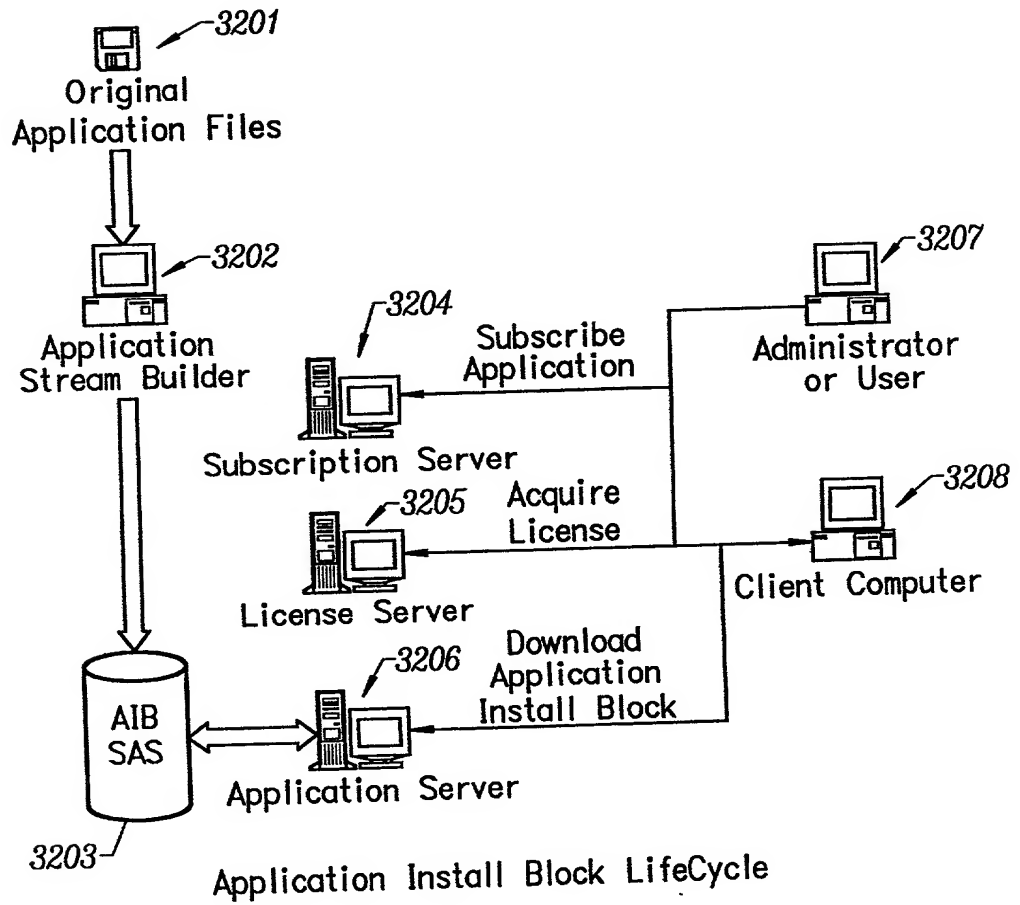


FIG. 32

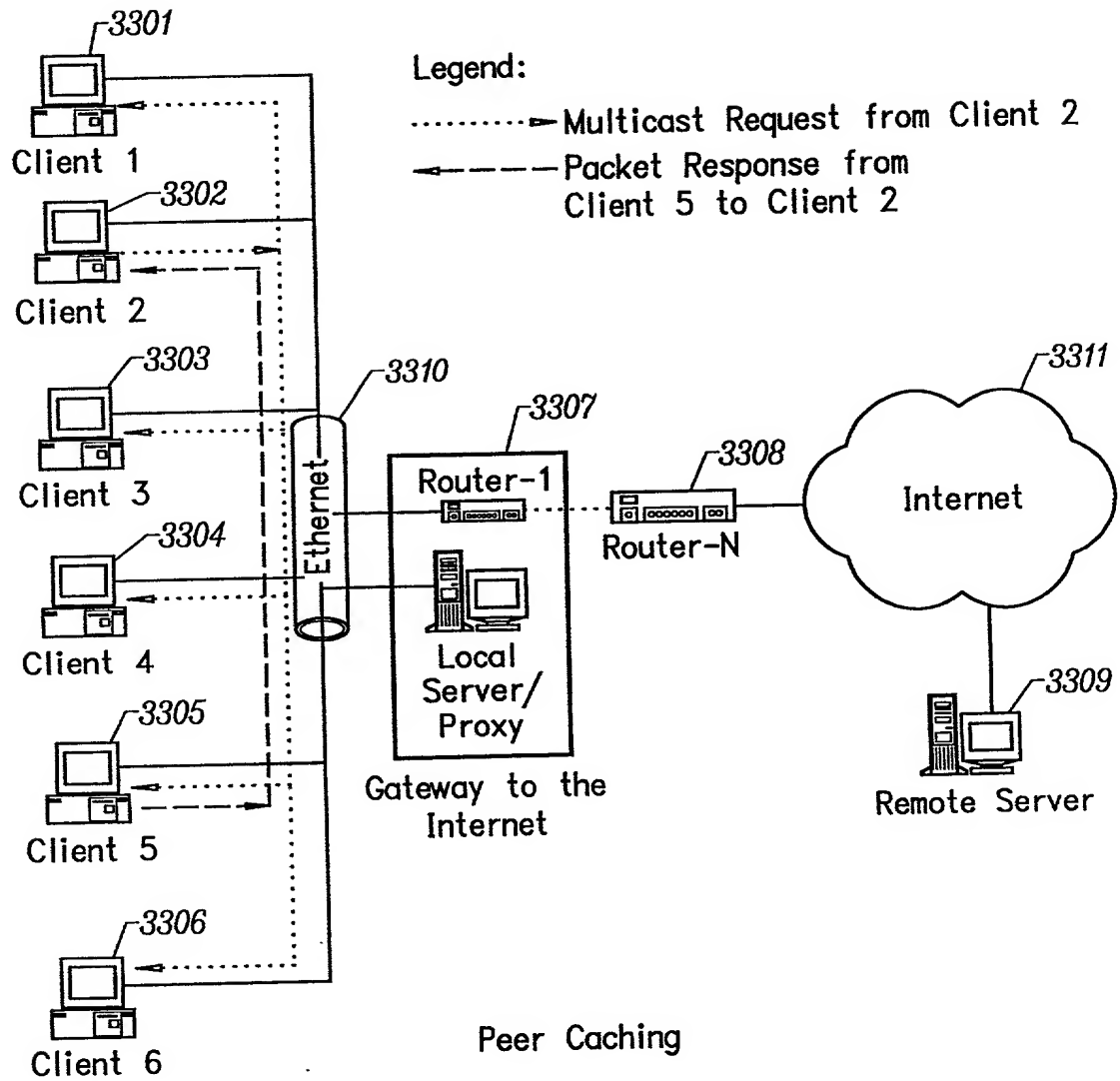


FIG. 33

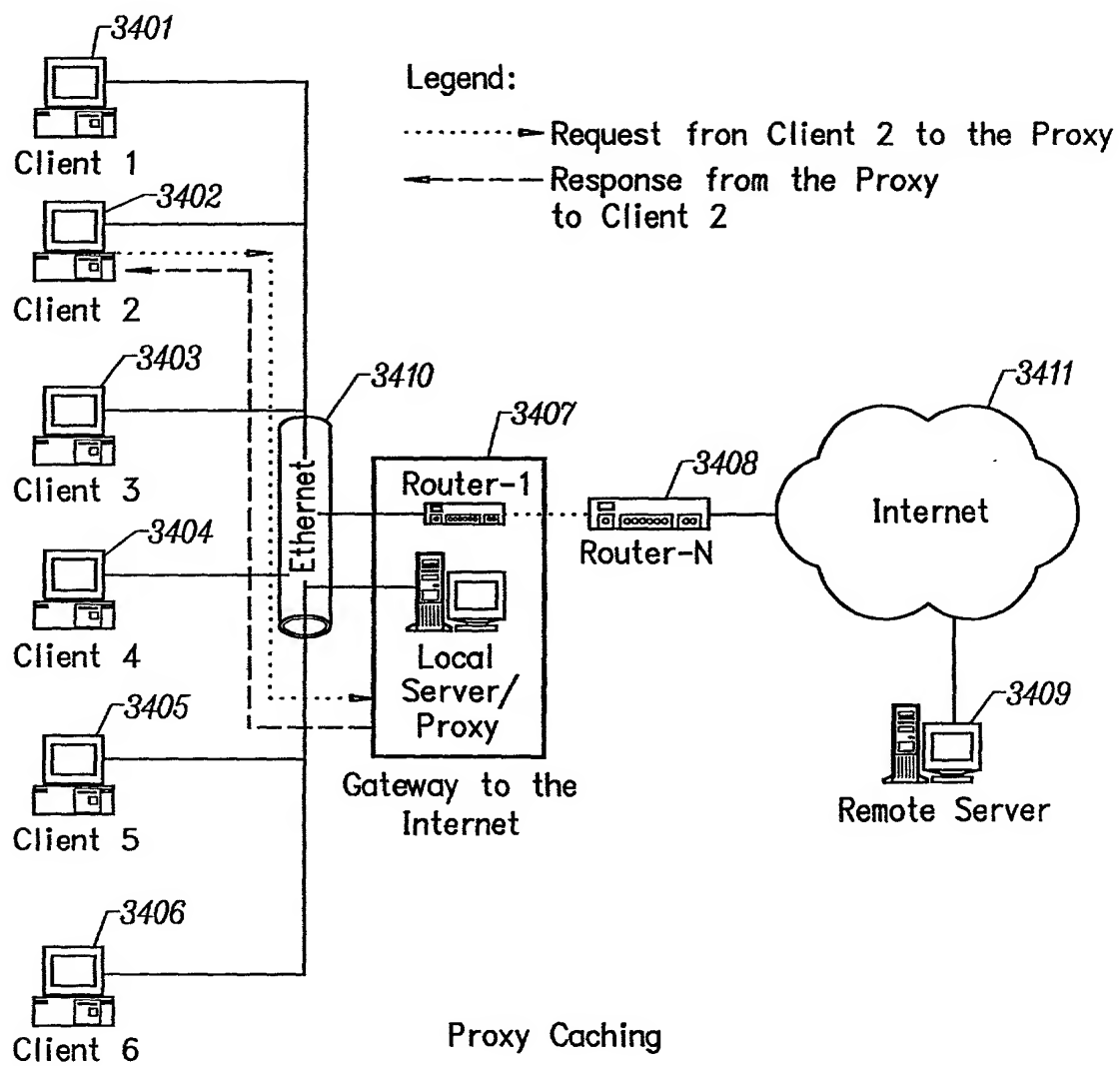


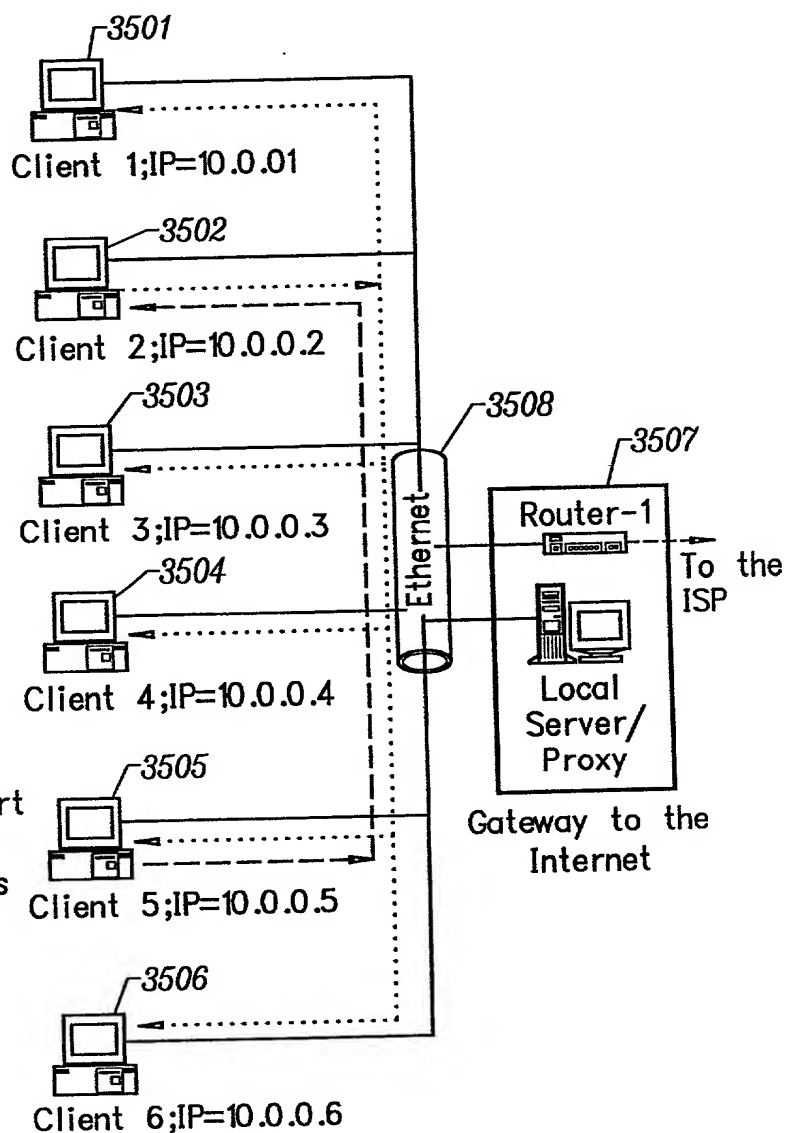
FIG. 34

## Legend:

- .....► Multicast Packet from Client 2  
 ←----- Diagram packet from Client 5 to Client 2

Client 2:  
 Creates the request  
 as a multicast packet;  
 Sends the packet to  
 the group 239.0.0.1  
 port 2001 from port  
 3002; Waits at port  
 3002 for a response;

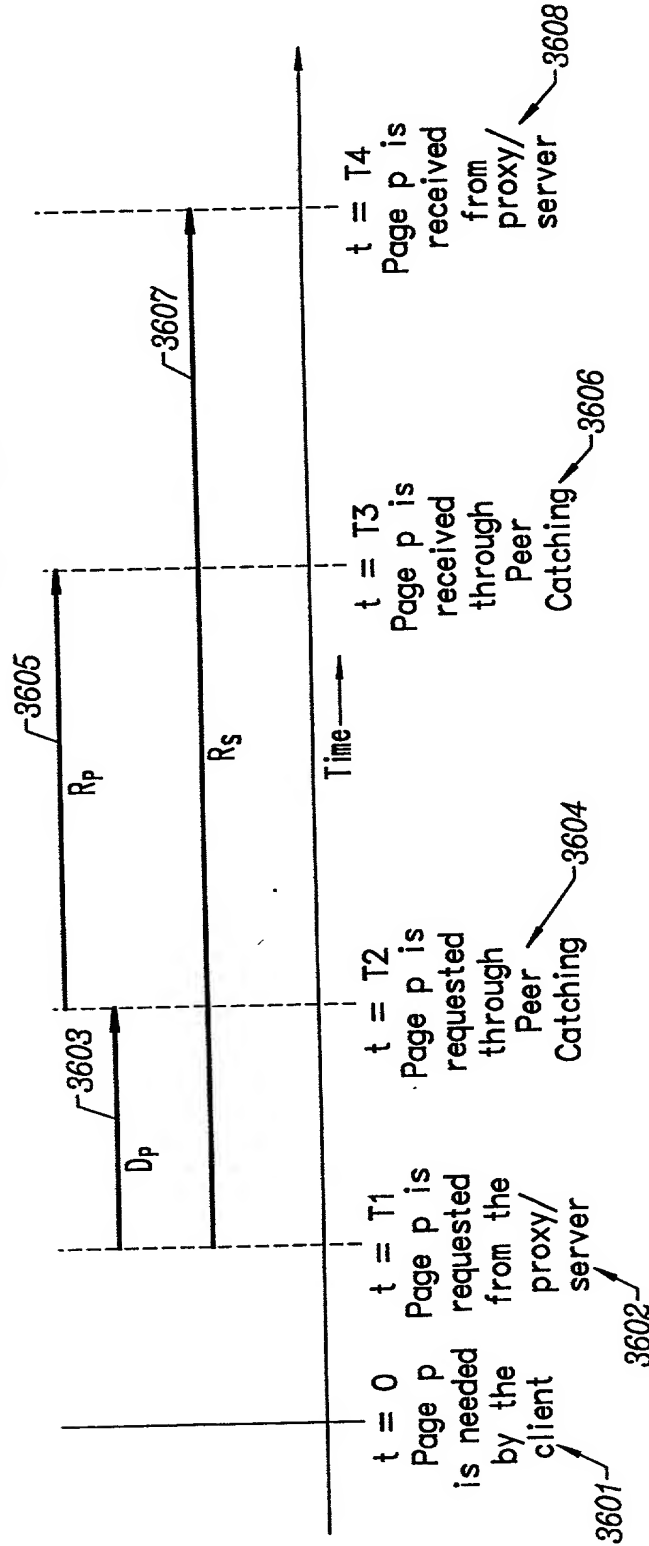
Client 5:  
 Joins the multicast  
 group 239.0.0.1 at port  
 2001; When a packet  
 is received, processes  
 the request; Sends  
 the response packet  
 to 10.0.0.2:3002;



Multicast within a LAN  
 and Packet Protocol

FIG. 35

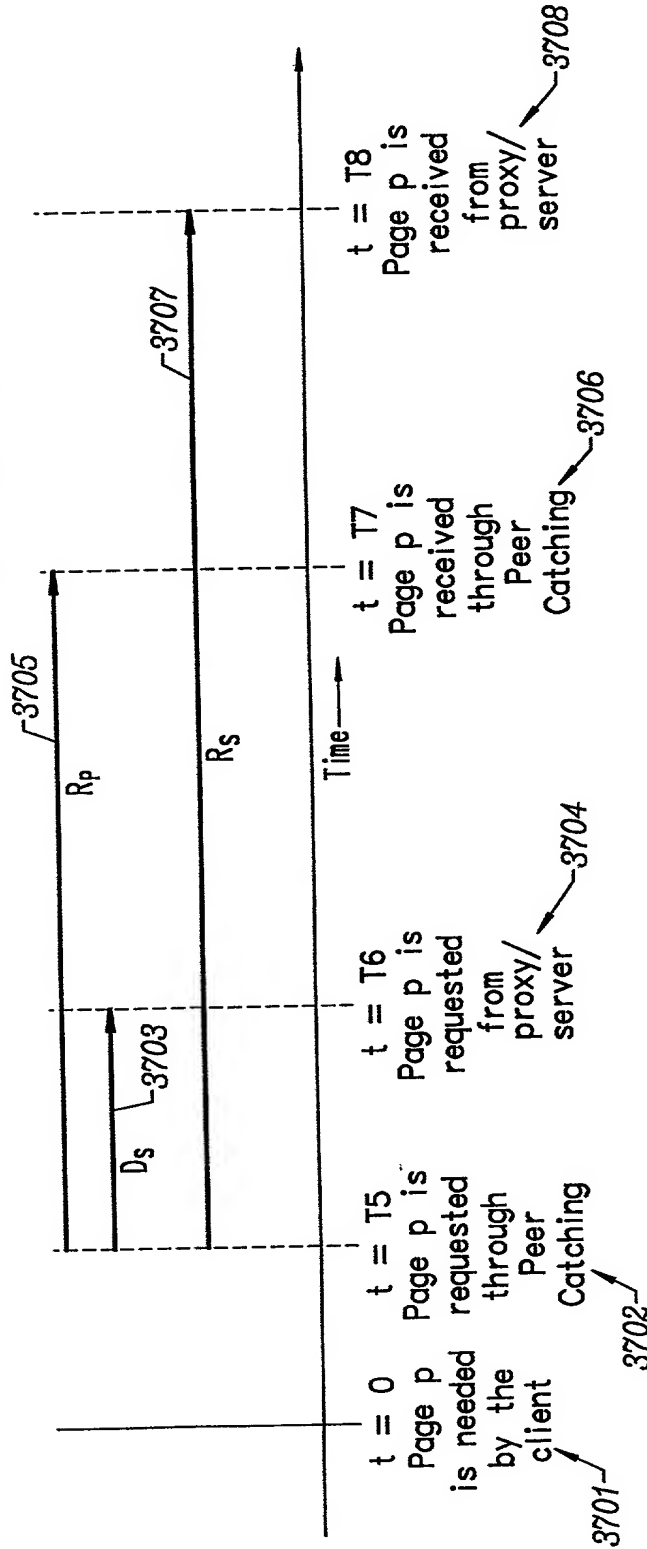
$D_p$  = Delay before using Peer Catching  
 $R_p$  = Response time of Peer Catching  
 $R_s$  = Response time of the proxy/server



Concurrent Requesting - Proxy First

FIG. 36

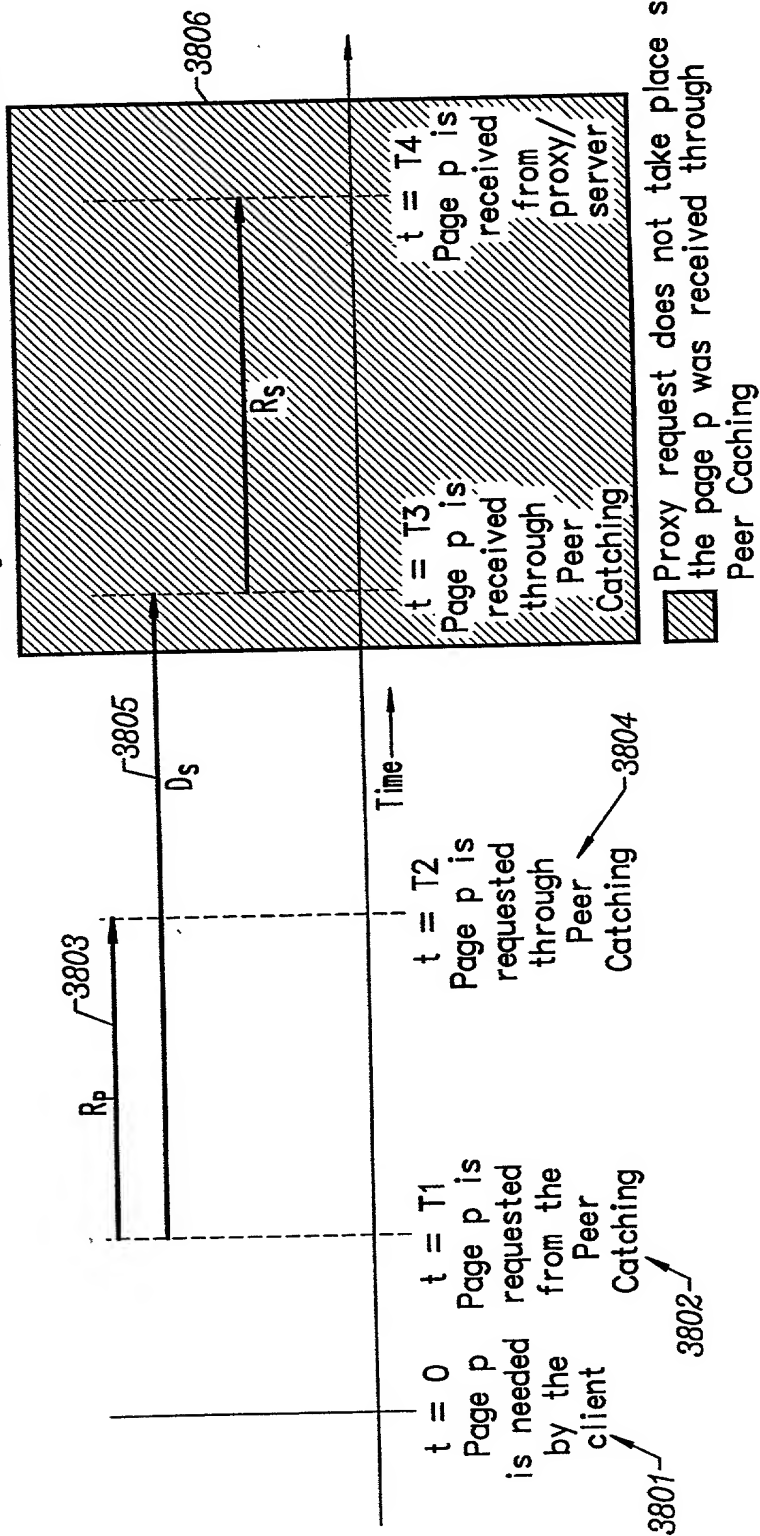
$D_s$  = Delay before requesting proxy/server  
 $R_p$  = Response time through Peer Catching  
 $R_s$  = Response time of the proxy/server



Concurrent Requesting - Peer Catching First

FIG. 37

$D_s$  = Delay before requesting proxy/server  
 $R_p$  = Response time through Peer Caching  
 $R_s$  = Response time of the proxy/server



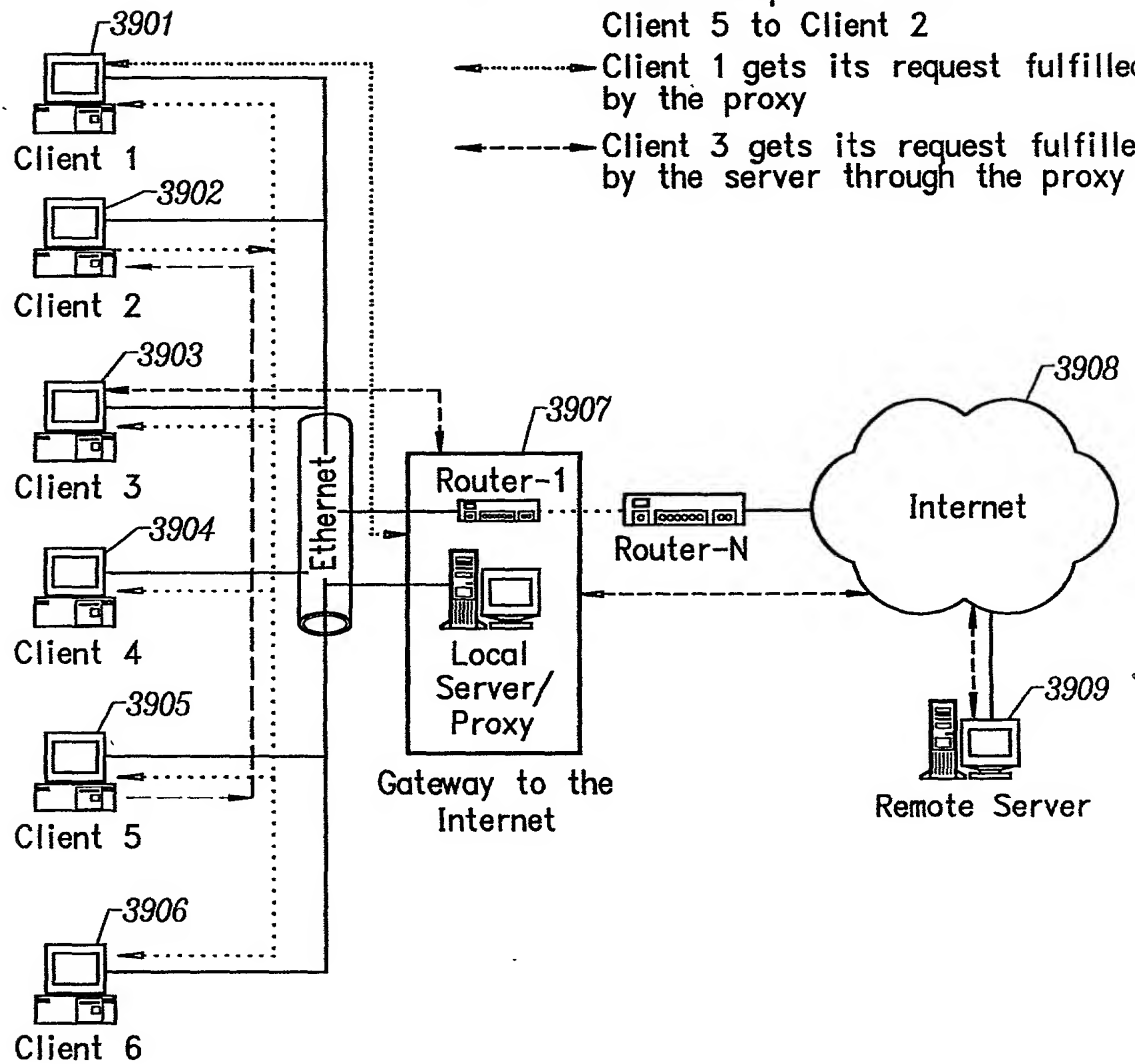
Concurrent Requesting - Peer Caching Only

FIG. 38



## Legend:

- .....► Multicast Request from Client 2
- ←----- Packet Response from Client 5 to Client 2
- ←----- Client 1 gets its request fulfilled by the proxy
- ←----- Client 3 gets its request fulfilled by the server through the proxy



Client-Server System with Peer  
and Proxy Caching

FIG. 39

# Preventing Piracy of Remotely Served, Locally Executed Applications

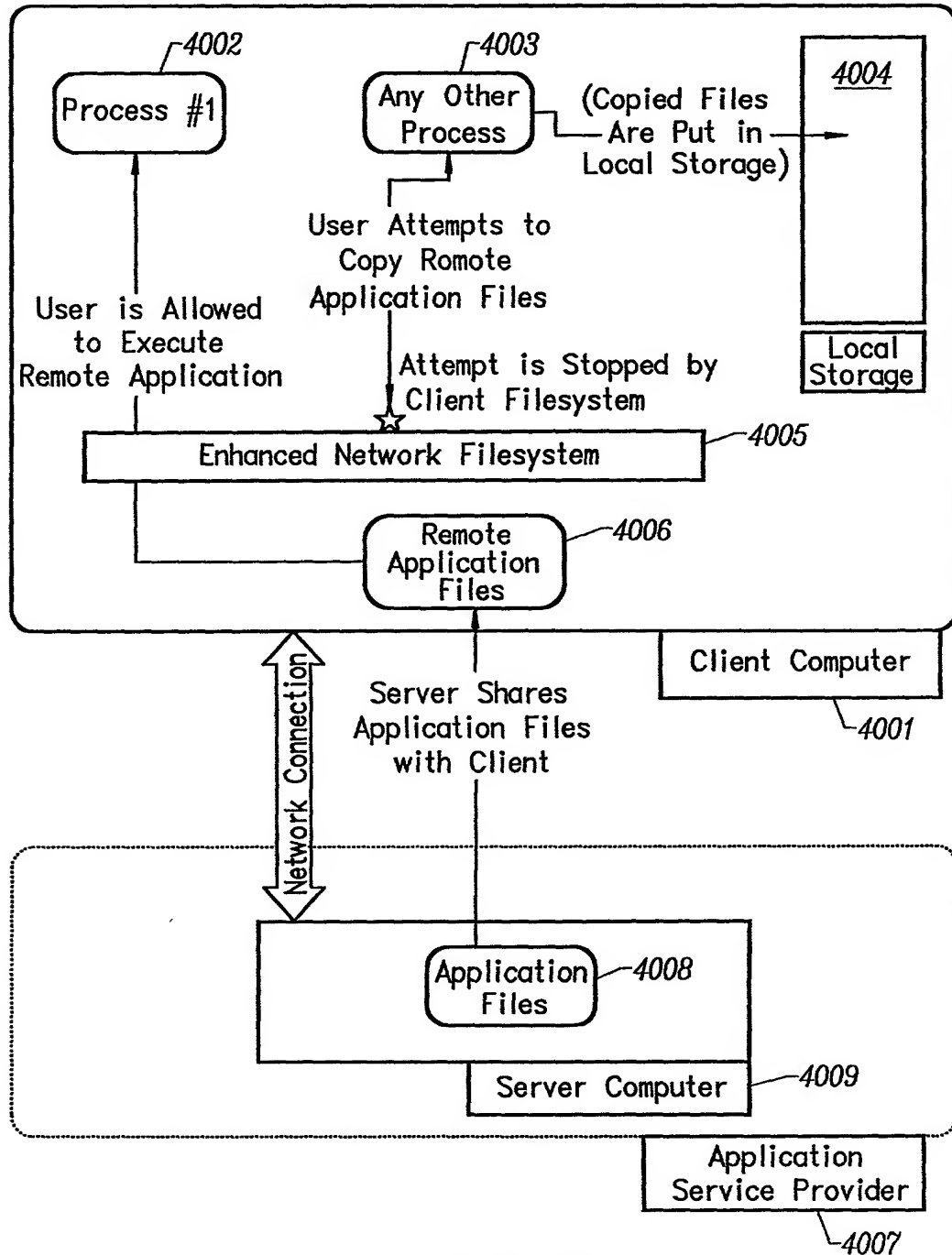


FIG. 40

## Filtering of Accesses to Remote Application Files

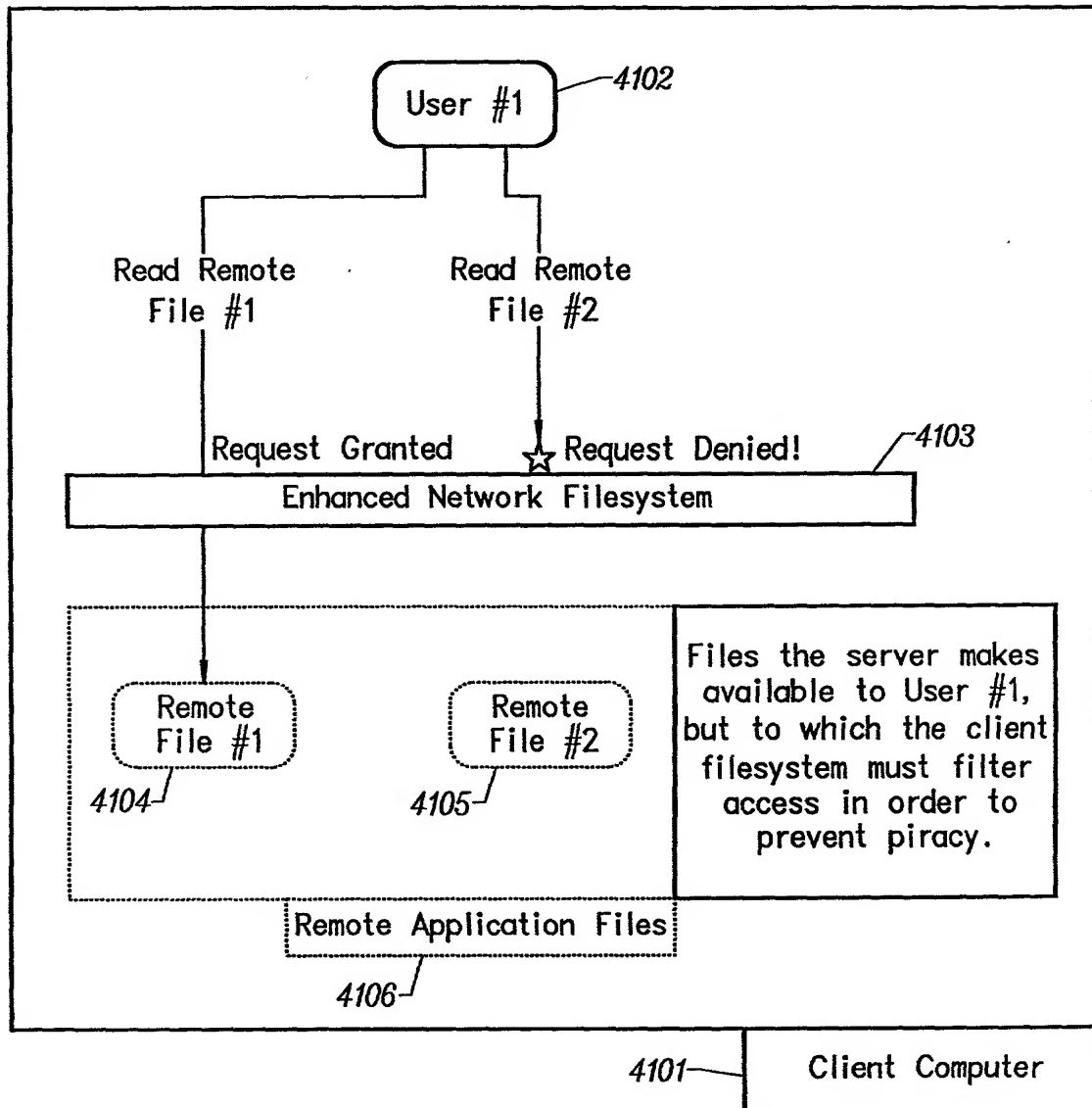


FIG. 41

# Filtering of Accesses to Remote Files Based on Process Code Location

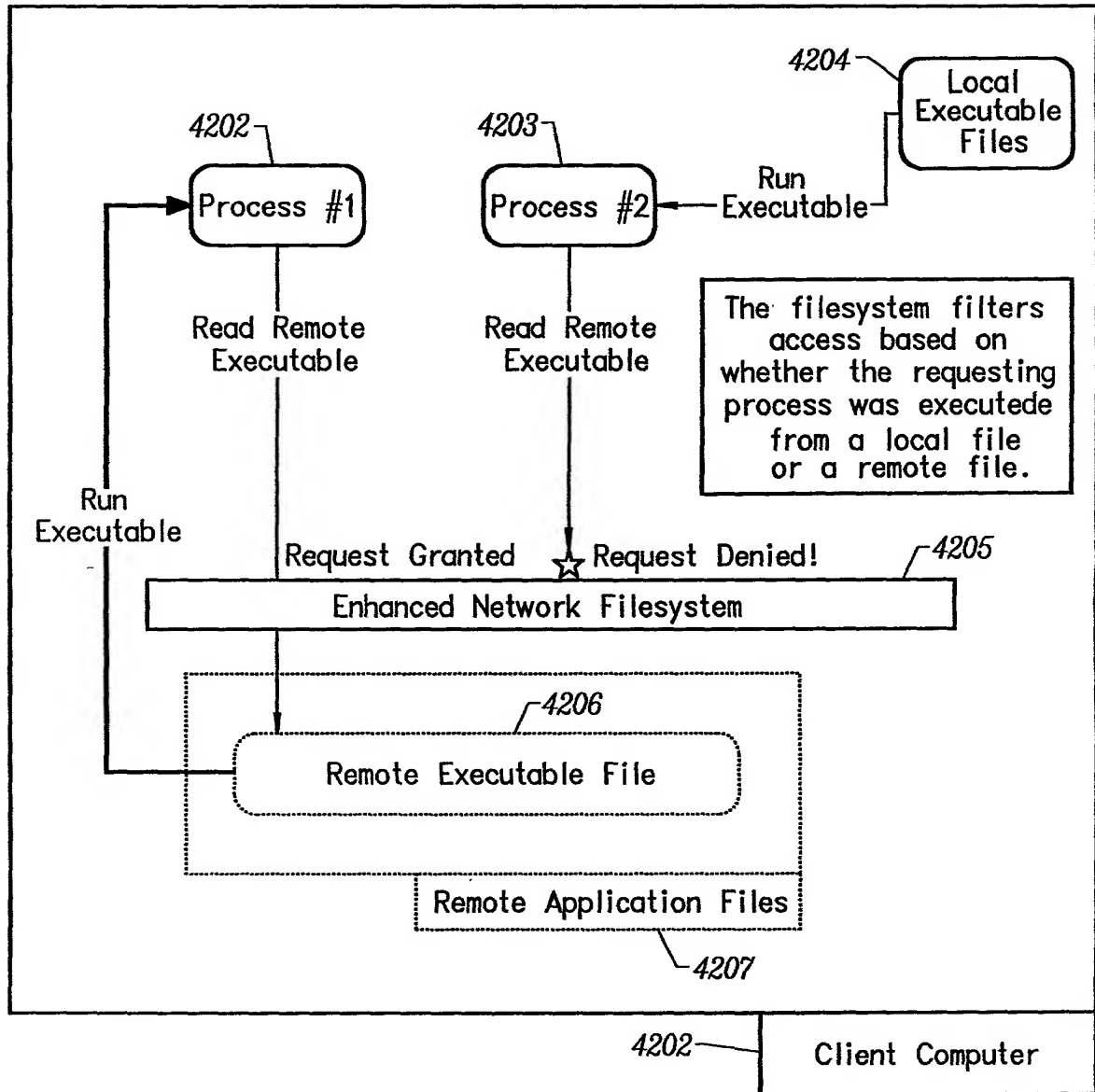


FIG. 42

Filtering of Accesses to Remote Files  
Based on Targeted File Section

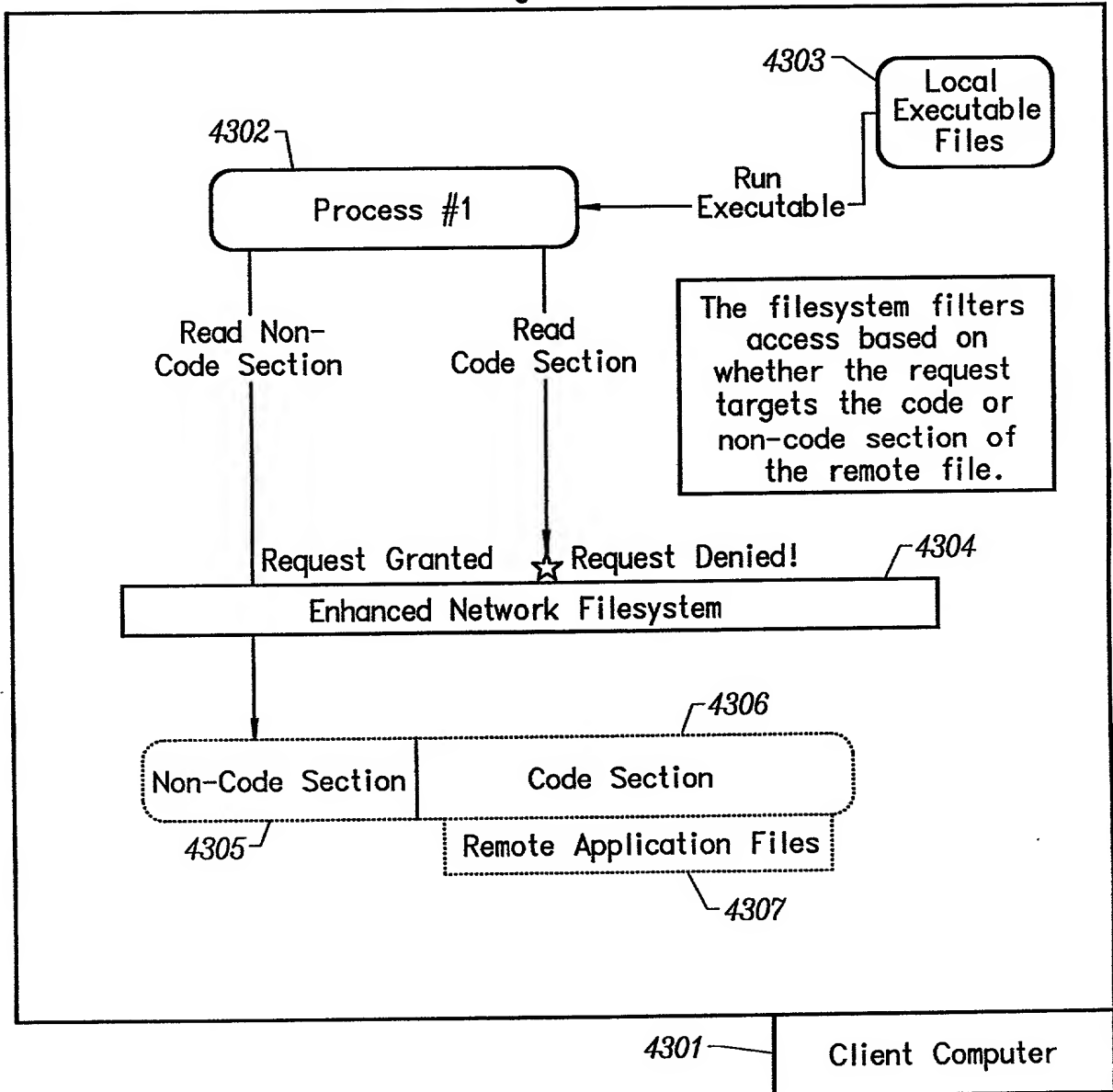


FIG. 43

# Filtering of Accesses to Remote Files Based on Surmised Purpose

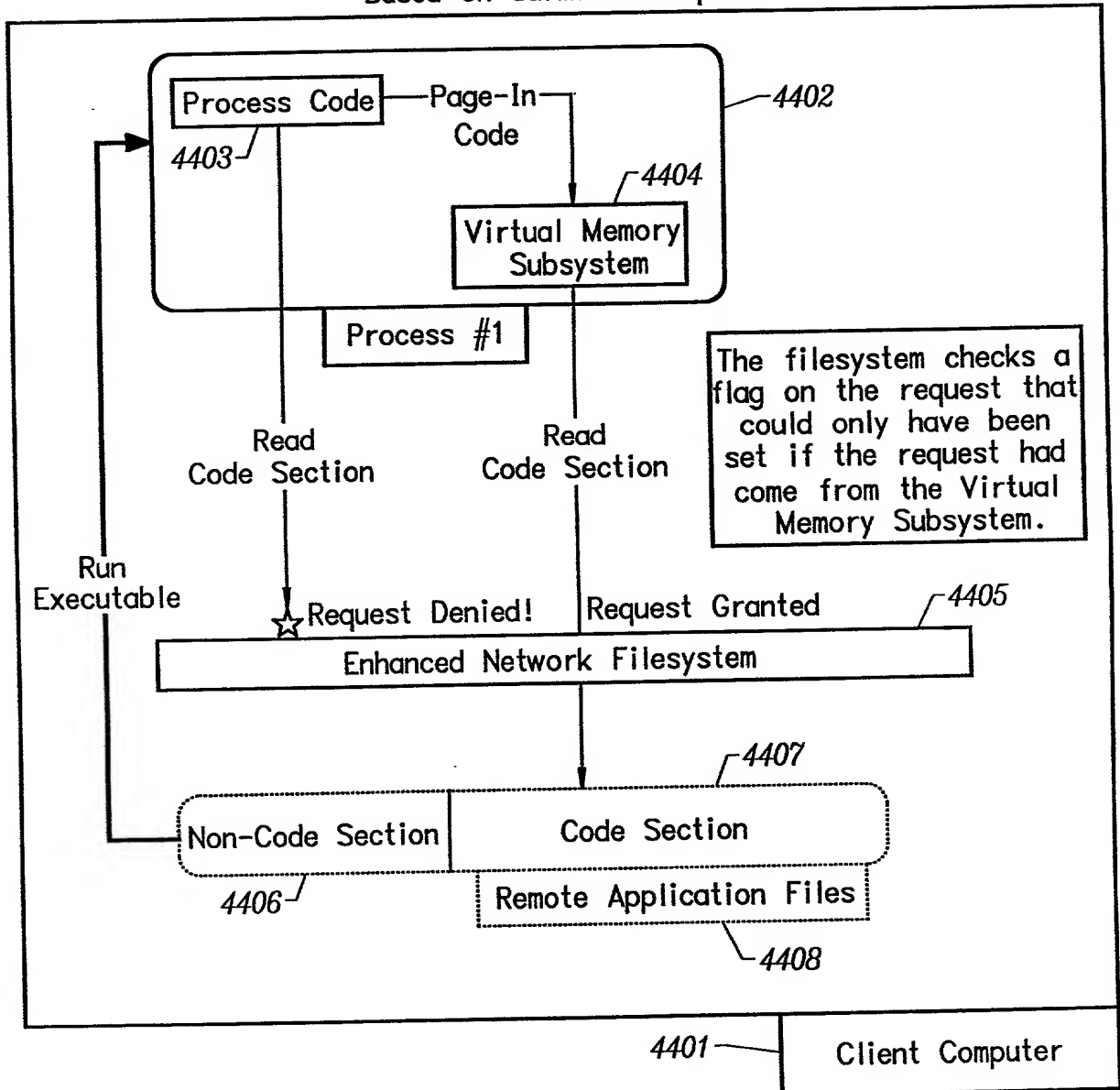


FIG. 44

Filtering of Accesses to Remote Files  
Based on Past Access History

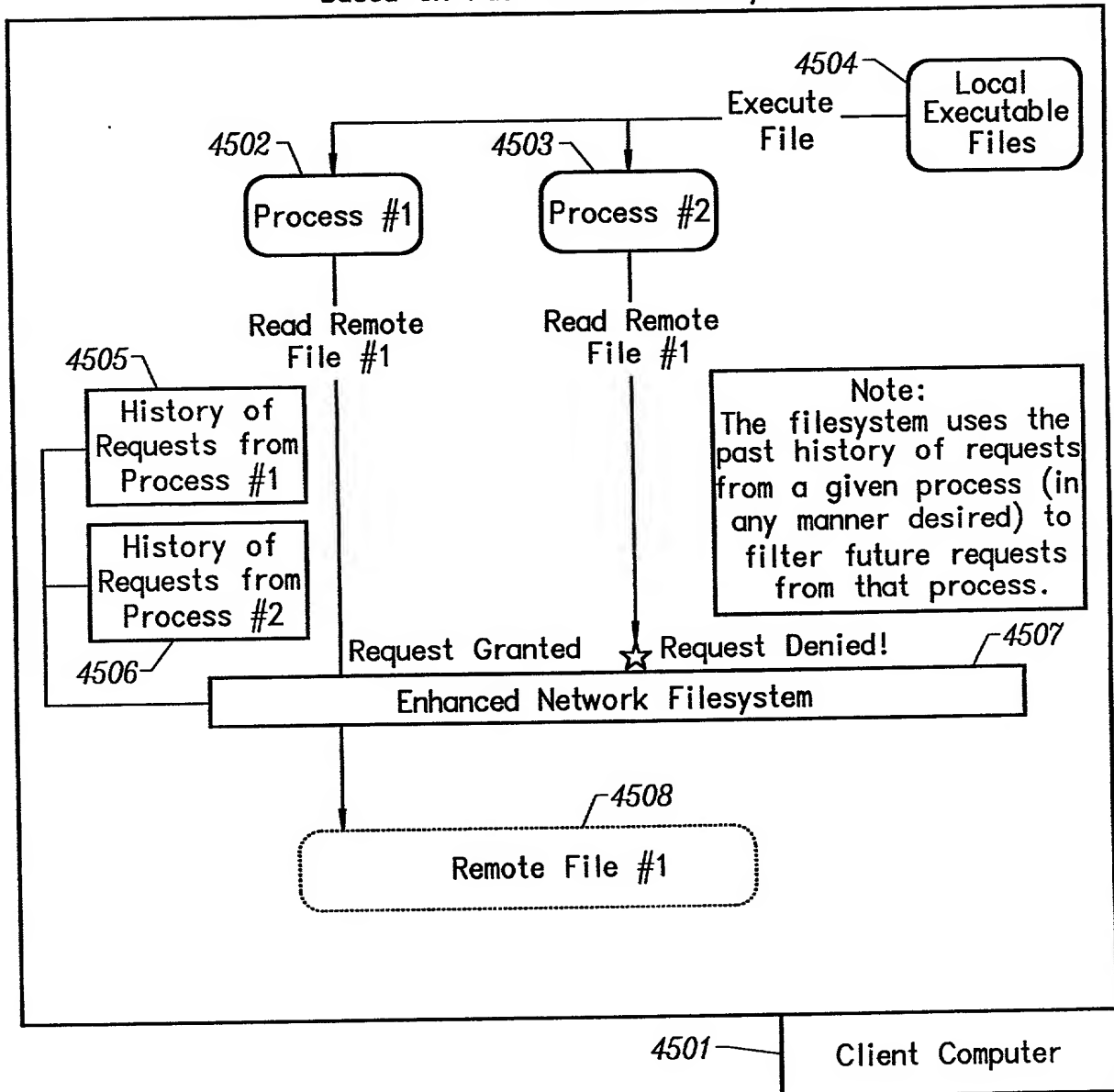


FIG. 45